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#### TECHNICAL REPORT ARBRL-TR-02054

## A COMBINATORIAL GEOMETRY COMPUTER DESCRIPTION OF THE XR311 VEHICLE

James E. Shiells

**April 1978** 



# US ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND BALLISTIC RESEARCH LABORATORY ABERDEEN PROVING GROUND, MARYLAND

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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
TECHNICAL REPORT ARBRL-TR-02054	
4. TITLE (end Subtitle)	5. TYPE OF REPORT & PERIOD COVERED
A COMBINATORIAL GEOMETRY COMPUTER DESCRIPTION OF THE XR311 VEHICLE	Final
of the arott ventene	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(e)	8. CONTRACT OR GRANT NUMBER(*)
James E. Shiells	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
US Army Ballistic Research Laboratory ATTN: DRDAR-BVL	
Aberdeen Proving Ground, MD 21005	1L662618AH80
11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
US Army Armament Research & Development Command	APRIL 1978
US Army Ballistic Research Laboratory (DRDAR-BL)	13. NUMBER OF PAGES 217
Aberdeen Proving Ground, MD 21005  14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
	INGLAGGINING
	UNCLASSIFIED
	15. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A
16. DISTRIBUTION STATEMENT (of this Report)	
Approved for public release; distribution unlimited	,
Approved for public release, distribution unitmitted	•
17. DISTRIBUTION STATEMENT (of the ebetrect entered in Block 20, if different from	n Report)
18. SUPPLEMENTARY NOTES	
	,
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)	
TOW Carrier Computer Description	
XR311 Armor Optimization	)
COM- GEOM	
Anti-Tank	
20. ABSTRACT (Continue on reverse side N recessary and identify by block number)	

This report documents four computer descriptions (COM-GEOM) of the XR311-TOW system. This included the Baseline XR311 (without armor) and three options with different armor configurations. The appendixes contain the actual computer descriptions of the four vehicles. These descriptions are also available at the BRL on either cards or magnetic tape. The shotline output of the GRID subroutine of the GIFT code is also stored on magnetic tape for future vulnerability analysis.

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#### I. INTRODUCTION

The XR311 is a high mobility lightweight vehicle that potentially may help counter the numerically superior Soviet Bloc tank threat to Western Europe. The anti-tank capability of the XR311 results from the fact that it is a highly maneuverable carrier for the TOW missile. An optimization study of the XR311-TOW system has been initiated by the Combat Development Directorate of the US Army Infantry School at Fort Benning, GA. This effort essentially consists of estimating the survivability of several XR311-armor/missile configurations by the US Army Materiel Systems Analysis Activity (USAMSAA) through the use of their war game simulations. To achieve this end, the Ballistic Research Laboratory (BRL) has been directed to supply USAMSAA with vulnerability information for each of the proposed versions of the XR311-TOW vehicles. These required vulnerability data are directly available as output from the vulnerable area (VAREA) computer program. However, this program, requires as input, XR311 COM-GEOM descriptions as processed by the Geometric Information For Targets (GIFT) computer code.

This report documents the COM-GEOM target description for all XR311-TOW systems under consideration. The output from the VAREA computer code is documented and is currently available in BRL Interim Memorandum Report No. 576 entitled "Vulnerable Area Estimates for Fragments Against The XR311 Combat Support Vehicle."

#### II. SYSTEM BACKGROUND

The XR311 combat vehicle was developed by the FMC Corporation in 1970. This vehicle is similar to a jeep in appearance and is shown with a ring mounted TOW launcher, in Figure 1. The XR311 is however, a very high performance, heavy duty vehicle with extended terrain crossing versatility as compared to a jeep. In 1972, ten XR311 vehicles were delivered to the US Army and were subsequently tested at Fort Knox, KY; Fort Gordon, GA and Fort Benning, GA. The XR311 demonstratively can serve various roles including command and control vehicle, reconnaissance vehicle, convoy escort vehicle, artillery forward observer vehicle and TOW missile carrier. It is the latter role, of TOW missile carrier, which is the subject of this report. The anti-tank capabilities of the XR311-TOW system results from the proven accuracy and lethality of the TOW missile. The TOW missile is a portable tube launched, optically tracked, wire guided anti-tank missile. The survivability of the XR311 TOW system is dependent on the high speed and mobility of the XR311 vehicle thereby making it a difficult target for enemy forces. The

<sup>1.</sup> GENERAL VULNERABLE AREA PROGRAM, VOL 1 User Manual, Naval Weapons Center TN 4565-9-72. March 1974.

<sup>2.</sup> L.W. Bains and M.J. Reisinger, "The GIFT Code User Manual, VOL 1, Introduction and Input Requirements," Ballistic Research Laboratory Report No. 1902, July 1975. (AD #B013219L)

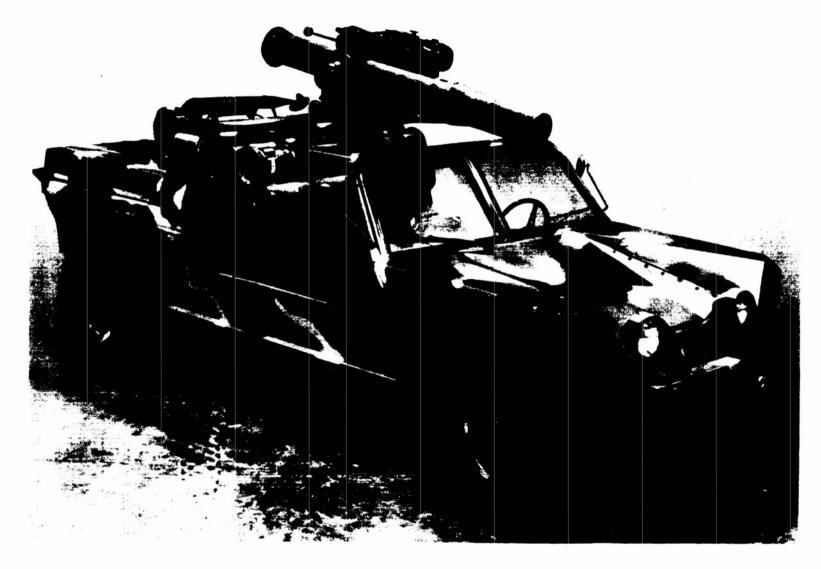


Figure 1. XR311 Baseline

Infantry School at Fort Benning, GA has requested that consideration be given to adding Kevlar or nylon armor to the XR311-TOW system in order to further improve the survivability of the system on the battlefield. This concept may be a viable alternative for this vehicle in view of the high horsepower to weight ratio and therefore minimal expected loss of mobility due to the protective armor weight.

#### III. XR311 ARMOR VERSIONS

The basic XR311-TOW system is shown in Figure 1 and Figure 2 without armor and is hereafter referred to as the baseline version. War game survivability estimates of all armored versions of the XR311-TOW system will be compared against the baseline survivability in order to determine the relative merit of each armored configuration. There are three different versions of the armored XR311-TOW system. Figure 3 shows the XR311 Option 1 version. In the XR311 Option 1, the TOW launcher is mounted on a ring mount in the same manner as that of the baseline version as shown in Figure 2. Armor is placed around the crew compartment, the TOW launcher, the TOW ammunition and over the fuel cell for Option 1. The XR311 Option 2 version shown in Figure 4, is considerably different than the Option 1 version of the XR311. In Option 2 the TOW launcher is mounted on a pedestal mount such that missiles are fired out from the right side of the vehicle. In this version the armor is extended over the TOW launcher, crew and the TOW ammunition, however, the sides are open. Figure 5 shows the XR311 Option 3 armored version in which the forward firing TOW launcher is mounted on a pedestal. In the Option 3 version, armor is placed around the crew and the TOW launcher and ammunition.

Two different kinds of armor material were considered for each candidate in the vulnerability evaluation. Either the vehicle armor was entirely nylon or it was entirely kevlar. The following areal densities of nylon and Kevlar armor were considered; 7.32, 10.98, 12.21 and 14.65 kilograms per square metre. A maximum tolerable weight of armor was the constraining factor which precluded greater areal densities from consideration. In view of the significance of the armor weight to this study, resort to the MOMENT subroutine of GIFT was made in order to estimate the armor weight for each XR311-TOW vehicle version. Table 1 lists the total armor weight of each of the three versions of the XR311-TOW vehicle with the aforementioned armor areal densities. An additional report describing the MOMENT code of GIFT and the MOMENT output to the XR311-TOW system is currently in preparation.

The COM-GEOM description for the XR311-TOW system is representative of the combat ready mode. Therefore, the fuel tank is full, a complete set of TOW missiles are in place and the three man crew is in position. A right handed coordinate system was used with the origin located on the ground plane at the rear center of the XR311 vehicle. The positive Z-axis extends upward from the ground, the positive y-axis goes to the



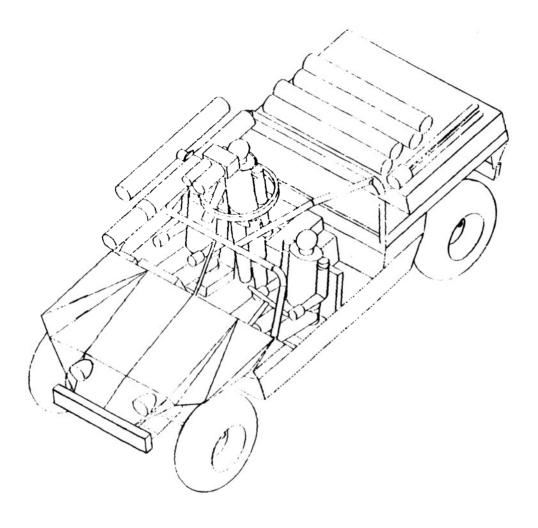


Figure 2. XR311 Baseline

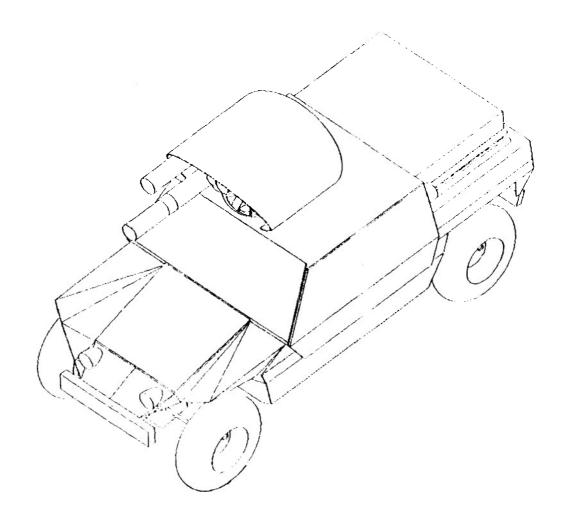


Figure 3. XR311 Option 1

. .



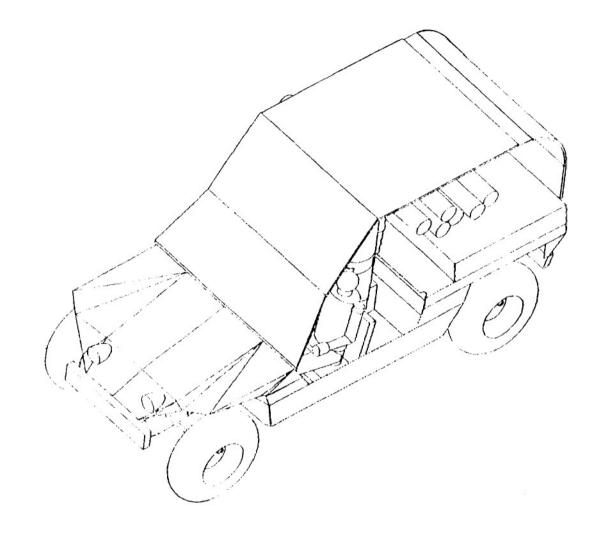


Figure 4. XR311 Option 2

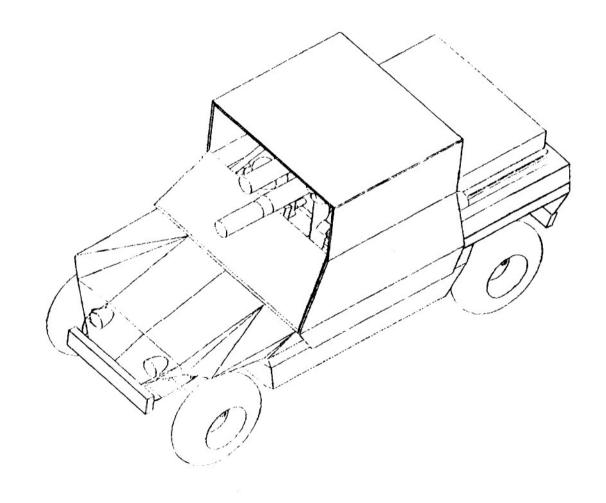


Figure 5. XR311 Option 3

Table 1. Armor Weight \* (Kg) for XR311 Options

AREAL DENSITY (Kg/M <sup>2</sup> )	OPTION 1	OPTION 2	OPTION 3
7.3	63	37	68
11.0	94	54	102
12.2	105	61	113
14.6	125	73	136

<sup>\*</sup>Excluding Armor Windshield

left and the positive x-axis extends toward the front of the vehicle. Figure 6 shows this coordinate system superimposed on the power train of the XR311 vehicle. This figure as well as Figures 2 thru 4 are scaled computer drawings which were generated by the PICTUR subroutine of the GIFT code.

The COM-GEOM descriptions are available at the BRL on either cards or magnetic tape. Appendices  $\Lambda$ , B, C and D list the COM-GEOM descriptions for the "baseline", Option 1, Option 2 and Option 3 versions of the XR311-TOW system respectively.

#### IV. VALIDATION PROCESS

In the process of producing a target description, errors are inevitably made. A thorough validation process was used to eliminate errors in the XR311-TOW descriptions.

First, this description was processed via the CHECK subroutine of the GIFT code. This subroutine checks for overlapping regions to any specified tolerance level. Overlapping errors result when regions occupy the same space. No overlapping regions were found in the XR311-TOW descriptions for a line of sight tolerance of one-half (.5) millimetre.

In addition to overlapping, another error which may occur in target descriptions is the mislocation of a region. This type or error cannot be found by using the CHECK subroutine. The PICTURE subroutine of GIFT produces computer plots of one or more regions of a description. By carefully inspecting these plots, one can often find mislocation errors. Figures 2 through 5 are examples of the PICTUR subroutine output. PICTUR subroutine outputs were used extensively in validating this target description, expecially the placement of interior components.

The GRID subroutine of the GIFT code traces rays through a target description at any specified aspect angle, listing the thicknesses and obliquity angles and location of each item encountered by each ray.

#### V. CONCLUSIONS

XR311-TOW vehicle candidates have been described using the COM-GEOM technique. The description has been produced and validated as an accurate model for use as input to the GIFT computer code. The descriptions are part of the BRL COM-GEOM description library and are presently available to the vulnerability community. The GRID output, as required by the VAREA program, is also available on magnetic tape at the BRL.

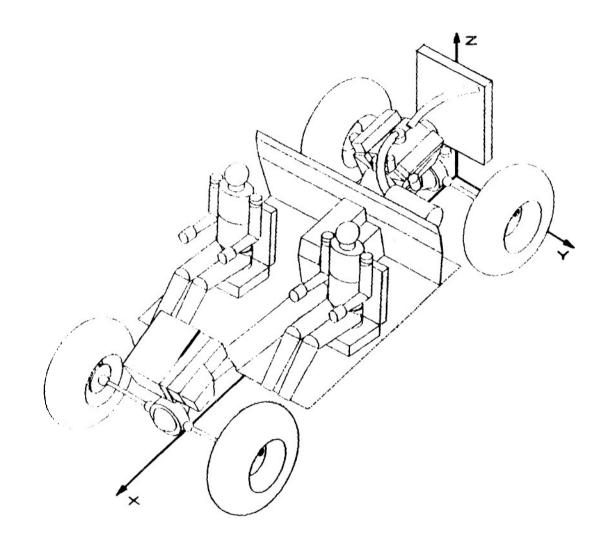


Figure 6. Coordinate System used in the COM-GEOM Description

### APPENDIX A BASELINE XR311-TOW DESCRITPION LISTING

TABLE A-1. SOLID DATA FOR BASELINE XR311

		LID TYPE			SOLID PAR	AMETERS			REMARKS
	1	ARB8	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
			983.0017	-170.0003	597.0014	983.0017	-30.0001	575.0024	
			1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
			1271.0032	-170.0003	597.0014	1271.0032	-30.0001	575.0024	
	2	ARBB	983.0017	-30.0001	575.0024	983.0017	-170.0003	597.0014	
			983.0017	-74.9989	651.0020	983.0017	145.9998	575.0024	
			1271.0032	-30.0001	575.0024	1271.0032	-170.0003	597.0014	
			1271.0032	-74.9989	651.0020	1271.0032	145.9998	575.0024	
	3	ARBB	983.0017	145.9998	575.0024	983.0017	-74.9989	651.0020	
			983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
			1271.0032	145.9998	575.0024	1271.0032	-74.9989	651.0020	
			1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
17	4	ARS	4	9	0				
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
			831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
			831.0024	180.0003	1041.0028	831.0024	135.0015	991.0027	
			831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
			831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
			831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
			1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
			1316.0020	180.0003	1041.0028	1316.0020	135.0015	991.0027	
			1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
			1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
			1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
			1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
			1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
			1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

	LID TYPE			SOLIO PAR	AMETERS			REMARKS
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
5	ARB8	831.0024	135.0015	991.0027	831.0024	34.0006	991.0027	
		831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
		1271.0032	135.0015	991.0027	1271.0032	34.0006	991.0027	
		1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
6	ARB8	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
		831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
		1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
		1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
7	RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
		54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
8	RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
		58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
9	RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
		81.9991	0.0000	0.0 <b>0</b> 00	0.0000	0 <b>.0</b> 000	0.0000	
10	RCC	1478.0039	707.0 <b>0</b> 16	939.0011	0.0000	-421-0016	0.0000	
		118.0012	0.0000	0.000	0.0000	0.000 <b>0</b>	0.0000	
11	RCC	767.0017	228.9997	799.0008	0.0000	0.0000	30.0001	
		44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
12	RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
		42.9998	C.0000	0.0000	0.0000	0.0000	0.0000	
13	ARB8	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
		278.9998	-334.0012	1235.0 <b>0</b> 11	278.9998	338.9999	1235.0011	
		488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
		394.0013	-334.0012	490.0 <b>0</b> 09	394.0013	338.9999	490.0009	
14	TEC	1316.0020	48.9993	714.0019	280.0005	0.000 <b>0</b>	0.0000	TRAN OD
		0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
		2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
15	TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
		0.0000	0.0000	258,9997	0.0000	-194-0009	0-0000	

		LID							
	NUM	TYPE			SOLID PAR	AMETERS			REMARKS
			2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	16	TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
			0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	17	TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
			0.0000	0.000	127.0005	0.0000	-94.0007	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	18	RCC	1758.0044	48.9993	714.0019	365.0020	0.0000	0.0000	TRANS
			84.9989	C.COOO	0.0000	0.0000	0.0000	0.0000	
	19	RCC	1927.0040	148.0013	504.9997	255.0018	0.0000	0.0000	
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	20	RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
			125.9997	0.000	0.0000	0.0000	0.0000	0.0000	
19	21	BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
			0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
	22	RCC	3898.0086	G.0000	434.0013	-100.0002	0.0000	0.0000	DIFF
			118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	23	SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
	24	RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	25	TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
			118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
	26	SPH	3568.0079	0.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
	27	SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
	28	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
			40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	29	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
			34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
		SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
	31	SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	0.0000	TMIOL-U
	32	BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE A-1. SULID DATA FOR BASELINE XR311 (CONTINUED)

0.0000			TYPE			SOLID PAR	AMETERS			REMARKS
0.0000				0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
34 RCC		33	BOX	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997	R COVER
## 44.0006				0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
35 RCC		34	RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
30.0001				44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
36 RCC 3856.0070 228.0015 434.0013 -22.9998 406.0003 -18.0011 L A) 14.9988 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 37 SPH 3833.0072 674.0018 416.0003 40.0001 0.0000 0.0000 U-JC 38 RCC 3856.0070 -228.0015 434.0013 -22.9998 -406.0003 -18.0011 R A) 14.9988 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 14.9988 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 40 RCC 796.0010 0.0000 458.0019 -100.0002 0.0000 0.0000 R DI 148.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 41 SPH 742.0004 0.0000 458.0019 114.9990 0.0000 0.0000 42 TRC 796.0010 0.0000 458.0019 140.0003 0.0000 0.0000 43 RCC 936.0013 0.0000 458.0019 140.0003 0.0000 0.0000 47 RCC 936.0013 0.0000 458.0019 50.0001 0.0000 0.0000 47 SPH 746.0009 188.0014 458.0019 40.0001 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 46 TRC 3833.0072 666.0008 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 47 TRC 3833.0072 942.0006 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 844.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000		35	RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
14.9988				30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
37 SPH 3833.0072 674.0018 416.0003 40.0001 0.0000 0.0000 U-JC 38 RCC 3856.0070 -228.0015 434.0013 -22.9998 -406.0003 -18.0011 R AN 14.9988 0.0000 0.0000 0.0000 0.0000 0.0000 U-JC 40 RCC 796.0010 0.0000 458.0019 -100.0002 0.0000 0.0000 0.0000 U-JC 148.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 U-JC 148.0013 0.0000 0.000		36	RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	LAXLE
38 RCC 3856.0070 -228.0015 434.0013 -22.9998 -406.0003 -18.0011 R A) 14.9988				14.9988	0.000	0.000	0.0000	0.0000	0.0000	
39 SPH 3833.0072 -674.0018 416.0003 40.0001 0.0000 0.0000 U-JC 40 RCC 796.0010 0.0000 458.0019 -100.0002 0.0000 0.0000 R DI 148.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 458.0019 114.9990 0.0000 0.0000 0.0000 458.0019 114.9990 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000		37	SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
39 SPH 3833.0072 -674.0018 416.0003 40.0001 0.0000 0.0000 U-JC 40 RCC 796.0010 0.0000 458.0019 -100.0002 0.0000 0.0000 R DI 148.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 41 SPH 742.0004 0.0000 458.0019 114.9990 0.0000 0.0000 0.0000 42 TRC 796.0010 0.0000 458.0019 140.0003 0.0000 0.0000 0.0000 118.0012 47.0003 0.0000 0.0000 0.0000 0.0000 0.0000 47.0003 0.0000 458.0019 50.0001 0.0000 0.0000 0.0000 47.0003 0.0000 0.0000 0.0000 0.0000 0.0000 44 SPH 746.0009 188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000		38	RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
40 RCC				14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
40 RCC	20	39	SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	THIOL-U
41 SPH 742.0004 0.0000 458.0019 114.9990 0.0000 0.0000 42 TRC 796.0010 0.0000 458.0019 140.0003 0.0000 0.0000 118.0012 47.0003 0.0000 0.0000 0.0000 0.0000 43 RCC 936.0013 0.0000 458.0019 50.0001 0.0000 0.0000 47.0003 0.0000 0.0000 0.0000 0.0000 0.0000 44 SPH 746.0009 188.0014 458.0019 40.0001 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 46 TRC 3833.0072 666.0008 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 47 TRC 3833.0072 942.0006 416.0003 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.000		40	RCC	796.0010	0.00 <b>0</b> 0	458.0019	-100.0002	0.0000	0.0000	R DIFF
42 TRC				148.0013	0.0000	0.0000	0.0000	0.0000	0.0000	
118.0012 47.0003 0.0000 0.0000 0.0000 0.0000 0.0000 43 RCC 936.0013 0.0000 458.0019 50.0001 0.0000 0.0000 0.0000 47.0003 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00		41	SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
43 RCC		42	TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
47.0003 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 45 SPH 746.0009 188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 0.0000 46 TRC 3833.0072 666.0008 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 47 TRC 3833.0072 942.0006 416.0003 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 604.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000				118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
44 SPH       746.0009       188.0014       458.0019       40.0001       0.0000       0.0000         45 SPH       746.0009       -188.0014       458.0019       40.0001       0.0000       0.0000         46 TRC       3833.0072       666.0008       416.0003       0.0000       0.0000       0.0000       0.0000         47 TRC       3833.0072       942.0006       416.0003       0.0000       -131.9992       0.0000       WHEEL         218.0014       138.0013       0.0000       0.0000       -131.9992       0.0000       WHEEL         218.0014       138.0013       0.0000       0.0000       0.0000       0.0000       0.0000         48 TOR       3833.0072       604.0021       416.0003       0.0000       1.0008       0.0000       TIRE         293.0003       154.9990       0.0000       0.0000       276.0000       0.0000       0.0000		43	RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
45 SPH 746.0009 -188.0014 458.0019 40.0001 0.0000 0.0000 46 TRC 3833.0072 666.0008 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 47 TRC 3833.0072 942.0006 416.0003 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 604.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000				47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
46 TRC 3833.0072 666.0008 416.0003 0.0000 131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 WHEEL 218.0014 138.0013 0.0000		44	SPH	746.0009	188.0014	458.0019	40.0001	0.0000	0.0000	
218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 47 TRC 3833.0072 942.0006 416.0003 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 604.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000		45	SPH	746.0009	-188.0014	458.0019	40.0001	0.0000	0.0000	
47 TRC 3833.0072 942.0006 416.0003 0.0000 -131.9992 0.0000 WHEEL 218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 604.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000		46	TRC	3833.0072	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
218.0014 138.0013 0.0000 0.0000 0.0000 0.0000 48 TOR 3833.0072 604.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000				218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
48 TOR 3833.0072 804.0021 416.0003 0.0000 1.0008 0.0000 TIRE 293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000		47	TRC	3833.0072	942.0006	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
293.0003 154.9990 0.0000 0.0000 0.0000 0.0000 49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000				218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
49 RCC 3833.0072 666.0008 416.0003 0.0000 276.0000 0.0000		48	TOR	3833.0072	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
				293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
218 0014 0 0000 0 0000 0 0000 0 0000		49	RCC	3833.0072	666.0008	416.0003	0.0000	276.0000	0.0000	
210.0014 0.0000 0.0000 0.0000 0.0000 0.0000				218.0014	0.000	0.0000	0.0000	0.0000	0.0000	
50 RCC 3833.0072 714.0019 416.0003 0.0000 11.9990 0.0000 DISC		50	RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

		LID								
	NUM	TYPE			SOLID PARA	METERS			REMARKS	
			120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
	51	RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	52	RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	53	RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	54	RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	C.0000	0.0000	0.0000	0.0000	0.0000		
	55	RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	56	TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF	
• .			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
21	57	TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF	
			218.0014	136.0013	0.0000	0.0000	0.0000	0.0000		
	58	TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
			293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
	59	RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000		
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
	60	RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC	
			120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
	61	RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	62	RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	C.0000	0.0000	0.0000	0.0000	0.0000		
	63	RCC	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	64	RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	65	RCC	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE	
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		

SOL									
NUM	TYPE			SOLID PARA	METERS			REMAR	(2
66	TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
67	TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
68	TOR	767.0017	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
69	RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
70	RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC	
		120.0002	0.0000	0.0000	0.0000	C.0000	0.0000	ROTOR	
71	RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
72	RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	C.0000	0.0000	0.0000	0.0000	0.0000		
73	RCC	835.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
74	RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
75	RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
76	TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
77	TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
78	TOR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
79	RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
80	RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000	DISC	
		120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
81	RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	LID TYPE			SOLID PAR	AMETERS			REMARKS
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82	RCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83	RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84	RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	MHEEF HOFE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85	RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	MHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86	TOR	1120.0022	220.0004	902.0007	0.0000	10.0000		AIR HOSE
		310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87	ARB8	1150.0022	366 • 0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
٠		1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
4		1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
		1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
	RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009		FLOOR CENT
89	AR88	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	
		1628.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	
		1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
		1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90	ARB8	1628.0042	-914.0023	1031.0028	1628.0042	914.0023	1031.0028	
		1628.0042	914.0023	837.0019	1628.0042	-914.0023		UPPER CENT
		1626.0026	-914.0023	1031.0028	1626.0026	914.0023	1031.0028	BULKHEAD
		1626.0026	914.0023	837.0019	1626.0026	-914.0023	837.0019	
91	ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	
		1628.0042	840.0016	451.9999	1628.0042	-840.0016	_	LOWER CENT
		1626.0026	-914.0023	837.0019	1626.0026	914.0023		8 ULKHEAD
		1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92	ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	
		1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	
		1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	8ULKHEAD

	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93	ARB8	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
		1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER
		2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
		1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
94	ARB8	2197.8630	145.0016	752.0004	1630.0032	145.0016	752.0004	TRANS
		1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
		2145.6303	145.0016	888.0027	1630.0032	145.0016	888.0027	
		1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
95	ARB8	2200.0043	277.0008	752.0004	1630.0032	277.0008	752.0004	TRANS
		1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER
		2200.0043	277.0008	451.9999	1630.0032	277.0008	451.9999	
		1630.0032	-52.9998	451.9999	2200.0043	-52.9998	451.9999	
96	ARB8	2198.0053	275.0018	752.0004	1630.0032	275.0018	752.0004	TRANS
		1630.0032	-51.9991	752.0004	2198.0053	-51.9991	752.0004	COVER
		2198.0053	275.0018	451.9999	1630.0032	275.0018	451.9999	
		1630.0032	-51.9991	451.9999	2198.0053	-51.9991	451.9999	
97	ARB8	2200.0043	147.0005	754.0020	2200.0043	277.0008	754.0020	TRANS TOP
		1630.0032	277.0008	754.0020	1630.0032	147.0005	754.0020	COVER
		2200.0043	147.0005	752.0004	2200.0043	277.0008	752.0004	
		1630.0032	277.0008	752.0004	1630.0032	147.0005	752.0004	
98	SPH	1887.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
	SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
		40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
101	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
		34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
	SPH	767.0017	723.0011	416.0003	40.0001	0.0000		R WH U-JNT
	SPH	767.0017	-723.0011	416.0003	40.0001	0.0000		R WH U-JNT
104	RCC	746.0009	228.0015	458.0019	0.0000	455.0022	-41.9991	RR AXLE
		14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

50	DLID							
NUN	TYPE			SOLID PAR	AMETERS			REMARKS
105	RCC	746.0009	-228.0015	458.0019	0.0000	-455.0022	-41.9991	RR AXLE
		14.9988	0.000	0.0000	0.000	0.0000	0.0000	
106	TOR	578.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H20 HOSE
		500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
107	7 RPP	373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H20 HOSE
108	ARBU	2642.0041	801.0023	627.0015	2287.0047	801.0023	557-0013	SEAT
		2287.0047	295.0018	557.0013	2642.0041	295.0018	627.0015	
		2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
		2306.3494	295.0018	458.8909	2661.3514	295.0018	528.8910	
109	ARB8	2287.0047	801.0023	557.0013	2187.0045	601.0023	1047.0023	SEAT
		2187.0045	295.0018	1047.0023	2287.0047	295.0018	557.0013	
		2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	
)		2118.4166	295.0018	1033.0043	2218.4168	295.0018	543.0033	
110	ARB8	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
		2287.0047	-295.0018	557.0013	2642.0041	-295.0018	627.0015	
		2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458-8909	
		2306.3494	-295.0018	458.8909	2661.3514	-295.0018	528.8910	
111	LARBS	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
		2187.0045	-295.0018	1047.0023	2287.0047	-295.0018	557.0013	
		2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
		2118.4166	-295.0016	1033.0043	2218.4168	-295.0018	543.0033	
112	RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
		100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
113	3 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
		98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	605.3024	TUNNEL
119	TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.5317	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116	TRC	2879.5179	460.5013	761.3172	300.7753	0.0000		LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	030	
117	' TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7.63	UP LEG LT

SOL	ID TYPE			COLED DAD	AMETERE			0.584.04.5
NUN	ITPE			SOLID PAR	AMETEKS			REMARKS
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118	TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119	SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120	SPH	2386.7407	460.5013	665.5309	69.4998	0.0000		HIP JNT RT
121	REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122	REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
123	REC	2321.8638	548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
124	RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.000	0.0000	0.0000	
125	RCC	2272.2548	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126	TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127	TRC	2341.7089	355.4998	897.1950	268 <b>.</b> 96 <b>67</b>	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
128	RCC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129	ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130		2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131	SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132	SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW LT
133	SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134	SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135		3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE RT
136	REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	

SOLID							
NUM TYPE			SOLID PARA	METERS			REMARKS
137 REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
138 SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139 SPH	2281.7951	358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
140 TRC	2879.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141 TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142 TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143 TRC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
144 TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.000	0.0000	
145 SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
146 SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
147 REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
148 REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
149 REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
	0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
150 RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
151 RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
152 TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
153 TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
154 RCC	2272.2548	-548,0021	1254.5084	-13-7389	0.0000	70.6783	NECK

	SOLID			SOLID PAR	AMETERS			REMARKS
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
	155 ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
	IJJ ELLI	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	TEAU
	156 SPH	2879.5179	-46C.5013	761.3172	66.0149	0.0000		KNEE LT
	150 3FH	2879.5179	-635.5003	761.3172	66.0149	0.0000		KNEE RT
	157 3FR 158 SPH	2341.7089	-355.4998	897.1950	42.4994			
	150 SPH	2341.7089	-74C • 5018	897.1950	42.4994	0.0000 0.0000		ELBOW LT Elbow RT
	160 SPH	3201.0070	-460.5016	509.0002				
					50.0001	0.0000		ANKLE LT
	161 SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000		ANKLE RT
	162 REC	2610.6756	-355.4998	949.4786	103.0711	0.0000		HAND LT
	142 056	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
	163 REC	2610.6756	-740.5018	949.4786	103.0711	0.0000		HAND RT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
) n	164 SPH	2281.7951	-356.0017	1205.4278	50.0001	0.0000		SHLD JNT L
~	165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000		SHLD JNT R
	166 ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992		FUEL CELL
		3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(DNE)
		3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
		3352.0055	C.0000	657.0015	3890 <b>.</b> 00 <b>7</b> 5	0.0000	609.0004	
	167 ARB8		68.0011	825.0003	3452.0057	111.9992		FUEL CELL
		3452.0057	221.9994	971.0026	3952.0066	181.9993	825.0003	(TWO)
		3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	
		3414.0071	220.4271	809.0008	3890.0075	181.9993	657.0015	
	168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
		3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
		3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
		3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5660	
	169 ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
		3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
		3352.0055	C.0000	609.0004	3352.0055	-235.9999	609.0004	
		3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	

TABLE A-1. SGLID DATA FOR BASELINE XR311 (CONTINUED)

	SOLID			SOLID PAR	AMETERS			REMAR	RKS
	170 ARB6	3988.0087	337.0009	755.0027	4296.0078	337.0009	723.0011	FEND	INSD
		4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863		
		4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862		
	171 ARB6	3988.0087	-337.0009	755.0027	4247.0085	-454.0014	828.0026	FEND	INSD
		4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219		
		3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214		
	172 ARB6	3988.0087	337.0009	755.0027	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219		
		3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214		
	173 ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND	INSD
		3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576		
		4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588		
29	174 ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND	INSD
•		3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576		
		4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588		
	175 ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND	INSD
		4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909		
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902		
	176 ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909		
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902		
	177 ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND	INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217		
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209		
	178 ARB6		494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND	INSD
		4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217		
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209		
	179 ARB6		-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND	INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014		
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014		
	180 ARB6	3100.0060	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND	INSD

	SOLID							
	NUM TYPE			SOLID PAR	AMETERS			REMARKS
		4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014	
		3100.0060	693.0015	1101.0029	3099.9603	893.0015	1099.0014	
	181 RPP	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBER
	182 ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
		3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339	
	183 ARB6	4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339	
	184 AR86	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
		3412.0996	915.0107	981.8434	3465.0994	915.0107	1012.8442	
		3100.0060	893.0015	1101.0029	3100.0974	891.0101	1100.8429	
30	185 ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE
0		3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
		3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
	186 ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE
		3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
		3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321	
	187 ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE
		3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326	
		3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321	
	188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE
		3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
		3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026	
	189 ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
		3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009	
		3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026	
	190 ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
		2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026	
		3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
		2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SDE NUM	ID TYPE			SOLID PAR	AMETERS			REMARKS
			2/12 505/	013					
	141	ARB8	3412.0056	-917.0020	971.0026	3362.0055	-917.0020		BODY SIDE
			2926.0052	<b>-917.</b> C020	837.0019	3007.0061	-917.0020	971.0026	
			3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	
		4000	2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026	
	192	ARB8	3362.0055	917.0020	837.0019	3235.0050	843.0014		BODY SIDE
			1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019	
			3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
			1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
	193	ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014		BODY SIDE
	•		1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019	
			3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
31			1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	
_	194	ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
			1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
			3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
			1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
	195	ARBB	3235.005C	-843.0014	451.9999	3211.0070	-716.0009		ROCKER PAN
			1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
			3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
			1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
	196	ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMBER
			180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
			121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
			121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
	197	ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMBER
			173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
			128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
			128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
	198	ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
			1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
			1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SOLID							
	NUM TYP	E		SOLID PAR	AMETERS			REMARKS
		1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
	199 ARB	8 1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
		1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0028	
		1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
		1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
	200 ARB	8 1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
		128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
		1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
		128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
	201 ARB	8 1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
		128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
		1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030-4973	
		128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
32	202 ARB	8 351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
2		180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
		351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678	
		180.0003	790.1158	678.6678	128.9995	915.1173	1031.6706	
	203 ARB	8 351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023	REAR SIDE
		180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
		351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6 <b>67</b> 8	
		180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
	204 ARB	8 115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
		180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
		117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
		181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
	205 ARB	8 115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
		180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
		117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
		181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	
	206 ARB	6 115.9997	893.C015	1123.0019	182.2737	351.0014	678.0023	REAR
		184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	

SOL	.ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
207	ARB6	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
		184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
		115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
208	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
		4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
		4290.7906	G.0000	549.6201	4134.7908	0.0000	324.6184	
		4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
209	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
		4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
		4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
		4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	
210	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
		3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
		4138.8803	0.000	327.2498	3955.8802	0.000	2 <b>94.2</b> 500	
		3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
211	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
		3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
		4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
212	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
213	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	-270.0005	369.0000	3957-0079	-261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214	ARB8	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
		3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
	3209.1020	714.0619	369.6146	3235.8838	841.0024	452.6145	
215 ARB8	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
	3360-1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
	3209.1020	-714.0019	369.6146	3235.8836	-841.0024	452.6145	
216 ARB8	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
	3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	0203	369.6527	3360.1157	914.9802	837.6547	
	3410.1158	914.9802	982.6537	3424.6320	0203	994.6527	
217 ARB8	3211.0070	0.0000	369.0000	3362.0055	<del>-</del> 915.0005	837.0019	<b>BULKHEAD</b>
	3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	
	3410.1158	-914.9802	982.6537	3424.6320	.0203	994.6527	
218 RPP	4302.3578	4364.6592	-501.6520	503-6510	552.3506	716.6511	BUMBER
219 ARB8	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
	92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
	1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
	115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
220 ARB8	1314.2850	841.5206	1285.0038	95.3012	841.5206	1285.0038	INS ENG
	95.3012	-843.4484	1285.0038	1314.2850	-843.4484	1285.0038	DECK
	1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
	118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
221 TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000		CORNER
222 TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
223 ARB8	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	
	2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
	2792.8604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
	2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224 ARB8	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SOL	LID							
	NUM	TYPE			SOLID PAR	AMETERS			REMARKS
			2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
			2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
			2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
	225	RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	226	RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	227	RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	228	RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000	-449.7012	CENTRE BAR
			11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
	229	TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	
.,			120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
N N	230	TOR	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	
			120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	231	ARB6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0042	
			1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
			1582.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
	232	ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0042	
			1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
			1582-0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
	233	RCC	1500.0029	672.0003	1547.0033		-1344.0031		REAR ROLL
			27.0003	0.0000	0.0000	0.0000	0.0000		BAR TOP
	234	RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	235	RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	
			27.0003	0.0000	0.0000	0.0000	0.0000		BAR SIDE
	236	RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	
			27.0003	0.0000	0.0000	0.0000	0.0000		SUPPORT
	23 <b>7</b>	RCC	2050.0040	465.0022	1601.0039	-550.0011	207.0007	-54.0006	
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	

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508	CIL							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
220	D.C.C	3752 0051	640 0010	1500 0030	702 0011	70 0001		MO *
238	KCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	
	200	27.0003	0.0000	0.0000	0.0000	0.0000		SUPPORT
239	RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	
		27.0003	0.0000	0.0000	0.0000	0.0000		SUPPORT
240	ARBB	3988.0087	458.0019	864.0022	3988.0087	0.0000		FRONT HOOD
		4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
		3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
		4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241	ARB8	3988.0087	-458.0019	864.0022	3988.0087	0.0000		FRONT HOOD
		4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
		3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
		4295.1747	0.0000	721.1825	4295.1747	-378.0017	721 <b>.182</b> 5	
242	ARBB	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
		3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
		3099.4904	-494.0015	1099.0699	3099-4904	0.0000	1099.0699	
243	ARB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
		3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
		3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244	ARB6	3988.0087	-337.0009	755.0027	4296.0078	-337.0009	723.0011	FEND INSD
		4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
		4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245	ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246	RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011		HEADLIGHT
	ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000		HEADLIGHT
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248	RPP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	HEADLIGHT
	RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	
,		20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
		20000	0,0000			2 3 0 0 0 0		

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
250 TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
	190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251 RPP	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0034	TOP DECK F
252 RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253 RPP	1416.0022	1620.C031	589.0004	840.0016	453.0006	681.0021	BATTERY
254 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
255 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	300.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
256 BOX	3377.0068	-870.0017	937.0021	0.0000	168.0013	0.0000	RADIO SET
	-105.0015	0.0000	-314.9993	-358.0017	0.0000	119.3297	GRC 160
257 BOX	3377.0068	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE
	-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET
258 RCC	2448.0058	-420.0008	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259 RPP	2363.0043	2533.0047	-504.9997	-334.9994	1720.0033	1948.0048	TRAVERSE
260 ARB8	2498.0059	-291.0013	1710.0033	2578.0060	-291.0013	1695.0046	TRAVERSE
	2578.0060	-291.0013	1950.0038	2498.0059	-291.0013	1950.0038	UNIT
	2498.0059	-548.0021	1710.0033	2578.0060	-548.0021	1695.0046	
	2578.0060	-548.0021	1950.0038	2498.0059	-548.0021	1950.0038	
261 ARB8	2398.0057	-291.0013	1710.0033	2318.0055	-291.0013	1695.0046	TRAVERSE
	2318.0055	-291.0013	1950.0038	2398.0057	-291.0013	1950.0038	UNIT
	2398.0057	-548.C021	1710.0033	2318.0055	-548.0021	1695.0046	
	2318.0055	-548.0021	1950.0038	2398.0057	-548.0021	1950.0038	
262 RCC	2448.0058	-535.0023	1885.0049	0.0000	-80.0002	0.0000	
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263 SPH	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	
264 SPH	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	
265 RCC	1843.5647	-420.0008	1885.0049	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266 RCC	1843.5647	-420.0008	1885.0049	638.0099	0.0000	0.0000	MSSLE SKIN

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TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SOLI NUM T				SOLID PAR	AMETERS			REMARKS
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	267 T	RC	2593.2715	-420.0008	1885.0049	202.5404	0.0000		MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
	268 T	RC	2593.2715	-420.0008	1885.0049	202.5404	0.0000	0.0000	MSSLE SKIN
	,		72.9338	62.2277	0.0000	0.0000	0.0000		INTERIOR
	269 R	CC	1843.5647	-420.0008	1885.0049	434.7227	0.0000	0.0000	LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	270 R	CC	2481.5745	-420.0008	1885.0049	111.6969	0.0000	0.0000	FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	271 S	PH	2536.4616	-420.0008	1885.0049	93.4571	0.0000	0.0000	FLHT MOTOR
	272 R	PP	2593.2715	2619.9416	-494.2072	-345.7944	1810.7985	1959.2088	FLHT MOTOR
	273 R	CC	2795.8119	-420.0008	1885.0049	147.9556	0.0000	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
38	274 E	LLI	2943.7674	-420.0008	1885.0049	98.4254	0.0000	0.0000	WARHEAD
-			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	275 E	LL1	2943.7674	-420.0008	1885.0049	95.8854	0.0000	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
	276 R	CC	1800.0035	-420.0008	1885.0049	1285.7505	0.0000	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	277 R	CC	1801.6291	-420.0008	1885.0049	1282.4993	0.0000	0.0000	MSSLE CASE
			76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	278 R	CC	2341.4041	-134.0008	2018.0049	419.1017	0.0000	0.0000	SIGHT
			64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	
	279 R	CC	2341.4041	-261.0013	2018.0049	419.1017	0.0000	0.0000	
			50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	
	280 R		2341.4041	2493.8047	-311.8015	-42.5604	1954.5047	2094.2052	
	281 R	A W	2366.8042	-311.8015	1953.1534	0.0000	177.8007	0.0000	
			0.0000	0.0000	-101.6004	152.4006	0.0000	0.0000	
	282 R	CC	2448.0058	-420.0008	1885.0049	640.0012	0.0000		LAUNCHER
			84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	
	263 R	CC	2448.0058	-420.0008	1885.0049	640.0012	0.0000	0.0000	LAUNCHER

SOL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	10
284	TRC	3088.0070	-420.0008	1885.0049	100.0002	0.0000	0.0000	LAUNCHER
		84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	TAPER OD
285	TRC	3088.0070	-420.0008	1885.0049	100.0002	0.0000	0.0000	LAUNCHER
		81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	TAPER ID
286	RCC	3188.0072	-420.0008	1865.0049	400.0008	0.0000	0.0000	LAUNCHER
		77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	
287	RCC	3188.0072	-420.0008	1885.0049	400.0008	0.0000	0.0000	LAUNCHER
		74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
288	RPP	2448.0058	2948.0067	-490.0009	-350.0007	1710.0033	1740.0034	LAUNCHER
289	REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
		0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
290	REC	2371.4753	548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
		0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291	RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
		54.0006	0.0000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292	RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293	BOX	1778.0045	-686.0008	643.0010	0.0000	0.0000	-128.0013	N S
		0.0000	-71.0009	0.0000	-37.0003	0.0000	0.0000	BATTERY
294	RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295	BOX	1778.0045	-599.0004	512.0000	0.0000	0.0000	151.0011	N S CEN-
		0.0000	-138.0013	0.0000	188.0014	0.0000	0.0000	TER BODY
296	ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
		1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
		1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
		1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297	RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099		MSSLE S-IN
		74.2064	0.000	0.0000	0.0000	0.0000		EXTERIOR
298	RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN

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SOLIC	D							
NUM T	YPE			SOLID PAR	AMETERS			REMARKS
		72 024/	0.0000	0 0000	0 0000	0.0000	0 0000	THEOLOG
200 T	D.C	72.9364	0.0000	0.0000	0.0000	0.0000		INTERIOR
299 Ti	KL	1200.0023	43.2665	1368.0037	0.0000	202.5404		MSSLE SKIN
200 T/	r. <b>c</b>	74.2064	63.5003	0.0000	0.00 <b>0</b> 0	0.0000		EXTERIOR
300 T	KL	1200.0023	43.2665	1368.0037	0.0000	202.5404		MSSLE SKIN
		72.9338	62.2277	0.0000	0.0000	0.0000	_	INTERIOR
301 R	CC	1200.0023	-706.4403	1368.0037	0.0000	434.7227		LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	
302 R	CC	1200.0023	-68.4304	1368.0037	0.0000	111.6969		FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
303 \$1		1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 BI	OX	1274.2087	43.2665	1293.7973	0.0000	26.6701		FLHT MOTOR
		-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR
305 R	CC	1200.0023	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 El	LL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
307 EI	LL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.0000	0.000 <b>0</b>	0.0000	0.0000	NOSE -INT
308 R	CC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
309 R	CC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 R	CC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 R	CC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
		72.9364	0.0000	0.0000	0.000	0.0000	0.0000	INTERIOR
312 T	RC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	-	74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
313 T	RC	1010.0020	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN
	_	72.9338	62.2277	0.0000	0.0000	0.0000		INTERIOR
314 R	CC	1010.0020	-756.4404	1368.0037	0.0000	434.7227		LAUNCH

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SOLID							
	NUM TYP	E		SOLID PARA	METERS			REMARKS
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	315 RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
	317 BOX	1084.2083	-6.7336	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
		-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR
	318 RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	319 ELL	1 101C.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	320 ELL	1 1010.0020	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
<u>~</u>	321 RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
		74.2064		0.0000	0.0000	0.0000	0.0000	EXTERIOR
	324 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	<b>MSSLE SKIN</b>
		72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	325 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		74.2064		0.0000	0.0000	0.0000	0.0000	EXTERIOR
	326 TRC			1368.0037	0.0000	202.5404		<b>MSSLE SKIN</b>
		72.9336		0.0000	0.0000	0.0000		INTERIOR
	327 RCC			1368.0037	0.0000	434.7227		LAUNCH
		26.5431		0.0000	0.0000	0.0000	0.0000	
	328 RCC			1368.0037	0.0000	111.6969		FLIGHT
		74.2064		0.0000	0.0000	0.0000	0.0000	
	329 SPH			1368.0037	93.4571	0.0000		FLHT MOTOR
	330 BOX	894.2080		1293.7973	0.0000	26.6701		FLHT MOTOR
		-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR

TABLE A-1. SGLID DATA FOR BASELINE XR311 (CONTINUED)

	SOL	. <b>I</b> D							
	NUM	TYPE			SGLID PARA	METERS			REMARKS
	331	RCC	820.0016	245.8069	1368.0037	0.0000	147.9556		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.000	0.0000	
	332	ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.000	0.0000	0.0000	NOSE - EXT
	333	ELLI	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
	334	RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	335	RCC	820.0016	-748.3758	1368.0037	0.000	1282.4993	0.0000	MSSLE CASE
			76.5178	0.0000	0.0000	0.000	0.0000	0.0000	INTERIOR
	336	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
42	337	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	338	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	339	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
	340	RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	341	RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	342		630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
	343	BOX	704.2076	-6.7336	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
			-148.4128	0.000	0.0000	0.0000	0.0000	148.4128	MOTOR
	344	RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	345	ELL1	630.0012	343.7624	1368.0037	0.000	98.4254	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	346	ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

	SOL	ID							
	MUM	TYPE			SOLID PARA	METERS			REMARKS
	347	RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	348	RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
			76.5178	0.000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	349	TRC	2240.0043	-46.5000	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
			66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
	350	TRC	2240.0043	-221.5016	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
			66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
	351	TRC	2240.0043	-46.5000	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
			80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
	352	TRC	2240.0043	-221.5016	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
			80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
4	353		2240.0043	-46.5000	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
43	354		2240.0043	-221.5016	1318.0036	69.4998	0.0000		HIP JNT RT
	355	REC	2240.0043	-134.0008	1238.0034	0.0000	0.0000	160.0003	HIPS
			0.0000	157.0006	0.0000	102.9999	0.0000	0.0000	
	356	REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000		TORSO LOW
			0.0000	145.0016	0.0000	107.0005	0.0000	0.0000	
	357	REC	2240.0043	-134.0008	1658.0042	0.0000	0.0000		TORSO UP
			0.0000	145.0016	0.0000	107.0005	0.0000	0.0000	
	358	RCC	2240.0043	58.4990	1918.0047	0.0000	13.9904		UP ARM LT
			47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	359	RCC	2240.0043	-326.5005	1918.0047	0.0000	-13.9904		UP ARM RT
			47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	360	TRC	2240.0043	72.4893	1554.2728	0.0000	10.5309		LOW ARM LT
			42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	361	TRC	2240.0043	-340.4909	1554.2728	193.7469	•5309		LOW ARM RT
			42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	362	RCC	2240.0043	-134.0008	1918.0047	0.0000	0.0000	71.9991	NECK
			60.5005	0.000	0.0000	0.0000	0.0000	0.0000	
	363	ELLI	2240.0043	<b>-134.0</b> 008	2038.0050	100.0002	0.0000	0.0000	HEAD

	S D L N U M	ID			SOLID PAR	AMETERS			REMARKS
			84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
	364		2240.0043	-46.5000	816.0011	66.0149	0.0000		KNEE LT
	365		2240.0043	-221.5016	816.0011	66.0149	0.0000		KNEE RT
	366		2240.0043	72.4893	1554.2702	42.4994	0.0000		ELBOW LT
	367		2240.0043	-340.4909	1554.2728	42.4994	0.0000		ELBOW RT
	368		2240.0043	-46.5000	400.0008	50.0001	0.0000		ANKLE LT
	369		2240.0043	-221.5016	400.0008	50.0001	0.0000		ANKLE RT
	370	REC	2240.0043	82.5198	1280.4825	0.0000	0.0000		HAND LEFT
			50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
	371	REC	2433.7512	-340.4909	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
			35.0013	0.0000	35.0013	0.0000	44.9988	0.0000	
	372		2240.0043	55.9996	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
	373		2240.0043	-324.0011	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
44	374	RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
4			60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	375	RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	376	RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	377	RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	378	RCC	801.0023	228.9997	430.0008	2916.7468	105.0015	0.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	379	RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	380	RCC	1843.5647	-697.0016	1885.0049	638.0099	0.0000	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	381	RCC	1843.5647	-697.0016	1885.0049	638.0099	0.0000	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000		INTERIOR
	382	TRC	2593.2715	-697.0016	1885.0049	202.5404	0.0000		MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID							
NUM TYPE			SOLID PAR	AMETEK2			REMARKS
383 TRC	2593.2715	-697.0016	1885.0049	202.5404	0.0000	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1843.5647	-697.0016	1885.0049	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	2481.5745	-697.0016	1885.0049	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MUTOR
386 SPH	2536.4616	-697.0016	1885.0049	93.4571	0.0000	0.0000	FLHT MOTOR
387 RPP	2593.2715	2619.9416	-771.2080	-622.7952	1810.7985	1959.2088	FLHT MOTOR
388 RCC	2795.8119	-697.0016	1885.0049	147.9556	0.0000	0.0000	WARHEAD
	63.5003	C.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	2943.7674	-697.0016	1885.0049	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
390 ELL1	2943.7674	-697.0016	1885.0049	95.8854	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
391 RCC	1800.0035	-697.0016	1885.0049	1285.7505	0.0000	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1801.6291	-697.0016	1685.0049	1282.4993	0.0000	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
393 RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000	TRIPOD
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394 RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395 RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396 RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000		TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397 REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000		ARMOR VEST
	0.0000	157.6991	0.0000	119.7005	0.0000	0.0000	

	R E G NUM								REGIO	IN C	OMBINAT	ION D	ATA				REMARKS
	1	OR	1	OR	2	OR	3		0		0	0	)	0	0	0	SUMP
	2		4		-35		С		0		0	0	)	0	0	0	BLOCK
	3	OR	5	OR	6		-106		0		0	0	)	0	0	0	MANIFOLD
	4		7		0		0		0		0	0	)	0	0	0	CARB
	5		8		-14		0		0		0	0	)	0	0	0	OIL FILT
	6		9		0		0		0		0	0	)	0	0	0	PUMP H20
	7		10		0		0		0		0	0	)	0	0	0	AIR FILT
	8		11		0		0		0		0	0	)	0	0	0	PUMP GAS
	9		12		0		0		0		0	0	)	0	0	0	GAS FILT
	10		13		-106		0		0		0	0	)	0	0	0	RADIATOR
	11		16		-8		-17		-100		0	0	)	0	0	0	TRANS ADP
	12	OR	18	OR	19	OR	20	OR	21	OR	14	-15	•	-100	0	0	TRANS
4	13	OR	22	OR	23	OR	24	DR	25		0	0	)	0	0	0	
46	14		26		0		0		0		0	0	)	0	0	0	
	15		27		0		0		0		0	0	)	0	0	0	
	16		28		-29		-26		0		0	0	)	0	0	0	
	17		30		0		0		0		0	0	)	0	0	0	
	18		31		0		C		0		0	0	)	0	0	0	
	19		32		0		0		0		0	0	)	0	0	0	
	20		33		0		0		0		0	0	)	0	0	0	
	21		34		0		C		0		0	0	)	0	0	0	
	22		35		0		0		0		0	0	)	0	0	C	
	23		36		0		0		0		0	0	)	0	0	0	
	24		37		0		0		0		0	0	)	0	0	0	
	25		38		0		O		0		0	0	)	0	0	0	
	26		39		O		0		0		0	0	)	0	0	0	
	27	DR	40	OR	41	OR	42	OR	43		-99	0	)	0	0	0	
	28		44		0		0		0		0	0	)	0	0	0	
	29		45		0		C		0		0	0	)	0	0	0	
	30		48		-49		G		0		0	0	)	0	0	0	TIRE
	31		49		-46		-47		-51		-52	-53	3	-54	-55	0	WHEEL

	R E G NUM					REGION	COMBINA	TION DAT	Δ			REMARKS
	32		58	-59	0	0	0	0	0	0	0	TIRE
	33		59	-56	-57	-61	-62	-63	-64	-65	0	WHEEL
	34		68	-69	0	0	0	0	0	0	0	TIRE
	35		69	-66	-67	-71	-72	-73	-74	-75	0	WHEEL
	36		78	-79	0	0	C	0	0	0	0	TIRE
	37		79	-76	-77	-81	-82	-83	-84	-85	0	WHEEL
	38		86	87	-7	-10	-34	-5	0	0	0	AIR HOSE
	39		88	-112	-18	-19	-20	-21	-91	-92	-100	FLW
	40	OR	89	DR 90	-16	GR 92 OR	91	-16	-100	0	0	BULKHD
	41		93	-94	_	0	0	0	O	0	0	TRANS COVER
	42		95	-96	-27	-112	0	0	0	0	0	TRANS COVER
	43		97	O	0	0	0	0	0	0	0	TRANS COVER
47	44		98	0	0	0	0	0	0	0	0	TRANS U JNT
•	45		99	O	0	- 0	0	0	0	0	0	TRANS U JNT
	46		100	-101	C	0	0	0	0	0	0	REAR PROP
	47		102	Ü	0	0	0	0	0	0		U-JOINT
	48		103	Ū	O	0	0	0	C	O	0	THIOL-U
	49		104	-44	O	0	0	0	0	0	0	REAR AXLE
	50		105	0	0	0	O	0	0	0	0	REAR AXLE
	51		106	107		0	0	0	0	0	0	H2O HOSE
	52		50	0		0	0	0	0	0	0	DISC BRAKE
	53		60	-39		0	0	0	0	0	0	DISC BRAKE
	54		70	O	•	C	0	0	0	0	0	DISC BRAKE
	55		80	-103		0	0	0	0	0	0	DISC BRAKE
	56		114	112	-113	0	0	0	0	0	0	TUNNEL
	57		108	0	0	0	0	0	0	0	0	SEAT
	58		109	0	-	0	0	0	0	0	0	SEAT
	59		110	O		0	0	0	0	0	0	SEAT
	60		111	0		0	0	0	0	O	0	SEAT
	61		115	-117		-134	0	0	0	0	0	LOW LEG LT
	62		116	-118	-131	-135	0	0	0	0	0	LOW LEG RT

	EG				REGION	COMBINATION	DATA			1	REMARKS
	63	117	-130	-119	-121	0	0	0	O	0	UP LEG LT
	64	118	-131	-120	-121	0	0	0	0	0	UP LEG RT
	65	119	0	0	0	0	0	0	0	0	HIP JNT LT
	66	120	0	0	0	0	0	0	0	0	HIP JNT RT
	67	121	-119	-120	-122	0	0	0	0	0	HIPS
	68	122	-123	0	0	0	0	0	0	0	TORSO LOW
	69	123	0	0	0	0	0	0	0	0	TORSO UP
	70	124	-132	-126	-138	0	0	0	0	0	ARM UP LT
	71	125	-133	-127	-139	0	0	0	0	0	ARM UP RT
	72	126	-132	0	0	0	0	0	0	0	ARM LOW LT
	73	127	-133	0	0	0	0	0	0	0	ARM LOW RT
	74	128	-123	0	C	0	0	0	0	0	NECK
48	75	129	-128	0	0	0	0	0	0	0	HEAD
~	76	130	0	C	0	0	0	0	0	0	KNEE LT
	77	131	0	O	0	0	0	0	0	0	KNEE RT
	78	132	0	O	0	0	0	0	0	0	ELBOW LT
	79	133	0	0	0	0	0	0	0	0	ELBOW RT
	80	134	0	0	0	0	0	0	0	0	ANKLE LT
	81	135	0	0	0	0	0	0	0	C	ANKLE RT
	82	136	-126	0	C	0	0	0	0	0	HAND LEFT
	83	137	-127	-250	O	0	0	0	0	0	HAND RT
	84	138	-123	0	0	0	0	0	0	0	SHLD JNT L
	85	139	-123	0	0	0	0	0	0	0	SHLD JNT R
	86 OR	166 DR	167 OF			0	0	0	0	C	FUEL CELL
	87	141	-143	-156	-160	0	0	0	0	0	<b>FOM TEE FL</b>
	88	142	-144	-157	-161	0	0	0	0	0	LOW LEG RT
	89	143	-156	-145	-147	0	0	0	0	0	UP LEG LT
	90	144	-157	-146	-147	0	0	0	0	0	UP LEG RT
	91	145	O	0	0	0	0	0	0	0	HIP JNT LT
	92	146	0	0	0	0	0	0	0	0	HIP JNT RT
	93	147	-145	-146	-148	0	0	0	0	0	HIPS

REG Num			-					REGIO	N	COMBIN	IAT	[ON DA	ATA						REMARKS
94		148		-149		0		0		0		0		0		0		0	TORSO LOW
95		149		0		0		0		0		0		0		0		0	TORSO UP
96		150		-158		-152		-164		0		0		0		0		C	ARM UP LT
97		151		-159		-153		-165		0		0		0		0		0	ARM UP RT
98		152		-158		0		0		0		0		0		0		C	ARM LOW LT
99		153		-159		0		0		0		0		0		0		0	ARM LOW RT
100		154		-149		0		0		0		0		0		0		0	NECK
101		155		-154		0		0		0		0		0		0		0	HEAD
102		156		0		0		0		0		0		0		0		0	KNEE LT
103		157		0		C		0		0		0		0		0		0	KNEE RT
104		158		0		O		0		0		0		0		0		0	ELBOW LT
105		159		0		0		0		0		0		0		0		0	ELBOW RT
106		160		0		0		0		0		0		0		0		0	ANKLE LT
107		161		0		0		0		0		0		0		0		0	ANKLE RT
108		162		-152		0		0		0		0		0		0		0	HAND LEFT
109		163		-153		0		0		0		0		0		0		0	HAND RIGHT
110		164		-149		0		O		0		0		0		0		0	SHLO JNT L
111		0		0		0		0		0		0		0		0		0	DUMMY
112		165		-149		0		0		0		0		0		0		0	SHLD JNT R
113	OR	170	OR	172	OR	174	OR	176	0	178	OR	180	OR	243	OR	240		-170	FT TOP LF
114		181		-218		0		0		0		0		0		0		0	F BUMBER
115	OR	202	OR	184	CR	186	OR	188	0	190	OR	192	OR	198	GR	200	OR	182	LEFT SIDE
		-180		0		0		C		0		0		0		0		0	
116	UR		OR	185	OR	187	OR	189	01	R 191	OR	193	OR	199	OR	201	OR	183	RIGHT SIDE
		-179		0		0		0		0		C		0		0		0	
117		194		-192		-8£		-214		-92		0		0		0		0	ROCKER LFT
118		195		-193		-88		-215		-92		0		0		0		0	ROCKER RGT
119		196		-197		C		0		0		0		0		0		0	REAR BUMBER
120		206		207		204		-202				-203		0		0		0	R SHT MET
121		208	OR	209		210	OR	211			OR	213		0		0		0	FLOOR SKID
122	OR	214	ÜR	215	DR	217		-28	0	R 216		-28		0		0		0	BULKHEAD

REG Num				REGION	N COMBINAT	ION DATA			REMARKS	
123	219	-220	0	0	0	0	0	0	O ENG DEC	K
124	221	223	Ö	0	0	Ö	Ö	Ö	O ROLL BAR	
125	222	224	Ö	Ö	Ô	Ö	Ö	Ö	O ROLL BAR	
126	226	-223	0	0	Ō	Ō	Ö	o o	O ROLL BAR	
127	227	-224	Ö	ŏ	Ö	Ö	Ö	ŏ	O ROLL BAR	
128 OR	228 OR	225 0	<del>-</del>	-	OR 233 OR	239 DR	237	-231	O ROLL TOP	
129	229	231	-233	0	0	0	0	0	O ROLL BAR	RR
130	230	232	-233	-239	0	Ö	Ô	Ö	O ROLL BAR	
131 OR	244 OR	171 0			OR 177 OR	179 OR	242 DF	241		RT
132	234	0	0	0	0	0	0	0	O ROLL BAR	RR
133	235	0	0	0	0	0	Ō	0	O ROLL BAR	RR
134	245	246	0	0	0	0	0	0	O HEADLIGH	T
135	247	248	0	0	0	0	0	0	O HEADLIGH	T
136	249	0	0	0	0	0	0	0	O STEERIN	e c
137	250	0	0	0	0	0	0	0	O STEERIN	6 W
138	251	-235	-234	0	0	0	0	0	O ENG TP	DC
139	252	0	0	0	0	0	0	0	O BATTERY	
140	253	0	0	0	0	0	0	0	O BATTERY	
141	254	-255	0	0	0	0	0	0	O TOW RING	
142	256	0	0	0	0	0	0	0	0 GRC160 R	ADI
143	257	0	0	0	0	0	0	0	O GUIDANCE	
144 DR	262 DR	258	-259	-260	-261	0	0	0	O TOW MOUN	T
145 OR	265	<b>-266 0</b>	R 267	-268	-271	0	0	0	O MISSILE	SKN
146	269	0	0	0	0	0	0	0	O LAUNCH M	OTR
147 OR	270 DR	271	272	0	0	0	0	0	O FLIGHT M	OTR
148	274	-273	-275	0	0	0	0	0	O WARHEAD	NSE
149 OR	268	-272 0	R 273	0	0	0	0	0	O WARHEAD	
150	266	-269	0	0	0	0	0	0		AFT
151	276	-277	0	0	0	0	0	0	O MISSILE	CAS
152 OR	278 OR	279 D		OR 281	0	0	0	0	O SIGHT	
153	282	-283	-288	0	0	0	0	0	O LAUNCHER	

	REG																	
	NUM								REGI	ON (	COMBI	TAP	ION DAT	TΔ				REMARKS
	154		284		-285		C		0		0		0		0	0	0	LAUNCHER
	155		286		-287		0		0		0		0		0	0	0	LAUNCHER
	156		289		-148		-149		-154		-164		-165	-15	0	-151	0	BODY ARMOR
			-158		-159		-152		-153		0		0		0	0	0	
	157		290		-122		-123		-128		-138		-139	-12	4	-125	0	BODY ARMOR
			-132		-133		-126		-127		0		0		0	0	0	
	158	OR	291	OR	292	OR	293	OR	294	OR	295	OR	296		0	0	0	NIGHT SIGH
	159	OR	297		-298	DR	299		-300		-303		0		0	0	0	MISSILE SKN
	160		301		0		0		0		0		0		0	0	0	LAUNCH MOTR
	161	OR	302	OR	303		304		0		0		0		0	0	0	FLIGHT MOTR
	162	•	306		-305		-307		0		0		0		0	0	0	WARHEAD NSE
	163	OΚ	300		-304	OR	305		0		C		0		0	0	0	WARHEAD
CT	164		298		-301		0		0		0		0		0	0	0	MISCL - AFT
_	165		308		-309		C		0		0		0		0	0	0	MISSILE CAS
	166	OR	310		-311	OR	312		-313		-316		0		0	0	0	MISSILE SKN
	167		314		0		0		0		0		0		0	0	0	LAUNCH MOTR
	168	OR	315	OR	316		317		0		0		0		0	0	0	FLIGHT MOTR
	169		319		-318		-320		0		0		0		0	0	0	WARHEAD NSE
	170	OR	313		-317	CR	318		0		0		0		0	0	0	WARHEAD
	171		311		-314		0		0		0		0		C	0	0	MISCL - AFT
	172		321		-322		0		0		0		0		0	0	0	MISSILE CAS
	173	OR	323		-324	OR	325		-326		-329		0		0	0	0	MISSILE SKN
	174		327		0		0		0		0		0		0	0	0	LAUNCH MOTR
	175	OR	328	OR	329		330		0		0		0		0	0	0	FLIGHT MOTR
	176		332		-331		-333		0		0		0		0	0	0	WARHEAD NSE
	177	ΟR	326		-330	OR	331		0		0		0		0	0	0	WARHEAD
	178		324		-327		0		0		0		0		0	0	0	MISCL - AFT
	179		334		-335		0		0		0		0		0	0	0	MISSILE CAS
	180	OR	336		-337	OR	338		-339		-342		0		0	0	0	MISSILE SKN
	181		340		0		0		0		0		0		0	0	0	LAUNCH MOTR
	182	UR	341	OR	342		343		0		0		0		0	0	0	FLIGHT MOTR

REG Num				REGION	COMBINA	TION DATA				REMARKS
183	345	-344	-346	0	0	0	0	0	0	WARHEAD NSE
184 (	JR 339	-343 0	IR 344	0	0	0	0	0	0	WARHEAD
185	337	-340	0	. <b>O</b>	0	0	0	0		MISCL - AFT
186	347	-348	0	0	0	0	0	0		MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	LOW LEG RT
189	351	-364	-353	-355	0	0	0	0	0	UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0	UP LEG RT
191	353	0	0	0	0	0	0	0	0	HIP JNT LT
192	354	0	0	0	0	0	0	0	0	HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	HIPS
194	356	-357	0	0	0	0	0	0	0	TORSO LOW
195	357	0	C	0	0	0	0	0	0	TORSO UP
<sub>17</sub> 196	358	-366	-360	-372	0	0	0	0	0	ARM UP LT
<sup>№</sup> 197	359	-367	-361	-373	-276	0	0	0	0	ARM UP RT
198	360	-366	0	0	0	0	0	0	0	ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	ARM LOW RT
200	362	-357	0	0	0	0	0	0	0	NECK
201	363	-362	0	0	0	0	0	0	0	HEAD
202	364	-93	0	0	0	0	0	0	0	KNEE LT
203	365	0	0	0	0	0	0	0	0	KNEE RT
204	366	0	0	0	0	0	0	0	0	ELBOW LT
205	367	0	0	0	0	0	0	0	0	ELBOW RT
206	368	0	0	0	0	0	0	0	0	ANKLE LT
207	369	0	0	0	0	0	0	0	0	ANKLE RT
208	370	-360	0	0	0	0	0	0	0	HAND LT
209	371	-361	0	0	0	0	0	0	0	HAND RT
210	372	-357	0	0	0	0	0	0	0	SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0	SHLD JNT
212	374	0	0	0	0	0	0	0	0	STARTER
213 (	OR 375 O	IR 376	0	0	0	0	0	o	0	CABLE

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM				REGION	COMBINATION	DATA		REMARKS
214 OR	377 OR	378 OF	379	0	0	0 0	0	O GAS LN
215 OR	380	-381 UH	382	-383	-386	0	0	O MISSILE SKN
216	384	Ç	G	o	0	0 0	0	C LAUNCH MOT
217 DR	385 OR	386	387	0	0	0 (	0	O FLIGHT MOT
218	389	-386	-390	0	0	0 0	0	O WARHEAD NOS
219 OR	383	-387 OF	388	0	0	0 (	0	O WARHEAD
220	381	-384	0	0	0	0 0	0	O MISCL AFT
221	391	-392	O	0	0	0 (	0	O MISSILE CAS
222 DR	393 OF	394 DF	395 DR	396	0	0 (	0	O TRIPOD
223	397	-356	<b>-</b> 35 <b>7</b>	-358	-359 -36	60 -361	-362	0
	-366	-367	-372	-373	0	0 (	0	0

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311

ļ	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTION	CODE	PERCENT
	1	9701	0	OIL SUMP	1	2
,	2	9702	0	ENGINE BLOCK	4	55
	3	9703	0	INTAKE MANIFOLD	4	20
	4	9704	0	CARBURATOR	5	50
	5	9705	0	OIL FILTER	1	2
	6	9706	0	WATER PUMP	4	30
	7	9707	0	AIR FILTER	1	2
	8	9708	0	FUEL PUMP	5	30
	9	9709	0	FUEL FILTER	5	5
	10	9710	0	ENGINE RADIATOR	7	15
	11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
	12	9712	0	AUTOMATIC TRANSMISSION	5	40
	13	9713	0	FRONT DIFFERENTIAL	1	50
54	14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
	15	9715	0	FNT TRANSMISSION U-JOINT	1	55
	16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
	17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
	1.8	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
	19	9719	0	LEFT ROCKER ARM COVER	1	2 2
	20	9720	0	RIGHT ROCKER ARM COVER	1	2
	21	9721	0	DISTRIBUTOR	5	30
	2 <b>2</b>	9722	0	IGNITION COIL	1	5
	23	9723	0	LEFT FRONT AXLE	1	100
	24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
	25	9725	0	RIGHT FRONT AXLE	1	100
	26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
	27	9727	0	REAR DIFFERENTIAL	1	50
	28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
	29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
	30	8737	0	TIRE	16	25
	31	9737	0	WHEEL	1	50

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

R	EGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPT	ION	CODE	PERCENT
	32	8737	0	TIRE		18	25
	33	9737	0	WHEEL		1	50
	34	8737	0	TIPE		18	25
	35	9737	0	WHEEL		1	50
	36	8737	0	TIRE		18	25
	37	9737	0	WHEEL		1	50
	38	8704	С	AIR CLEANER HOSE		18	5
	39	9112	0	CHASSIS BODY FLOOR		1	49
	40	9113	0	ENGINE COMPARTMENT BU	ILKHEAD	1	100
	41	9114	0	TRANSMISSION COVER		1	49
	42	9114	0	TRANSMISSION COVER		1	49
55	43	9114	0	TRANSMISSION COVER TO	IP .	1	49
Š	44	9730	C	TRANSMISSION REAR U-J	DINT	1	55
	45	9731	0	REAR DIFFERENTIAL U-J	OINT	1	55
	46	9736	0	REAR PROP		1	15
	47	9732	0	REAR WHEEL U-JOINT		1	55
	48	9733	0	REAR WHEEL U-JOINT		1	55
	49	9734	0	REAR AXLE		1	100
	50	9735	0	REAR AXLE		1	100
	51	9651	0	RADIATOR WATER HOSE		18	5
	52	9402	0	DISC BRAKE ROTOR		1	100
	53	9403	0	DISC BRAKE ROTOR		1	100
	54	9404	0	DISC BRAKE ROTOR		1	100
	55	9405	0	DISC BRAKE ROTOR		1	100
	56	9756	0	DRIVE TRAIN TUNNEL		1	49
	57	9752	0	SEAT		18	100
	58	9752	0	SEAT		18	100
	59	9752	0	SEAT		18	100
	60	9752	0	SEAT		18	100
	61	9810	0	LOWER LEG LEFT	DRIVER	28	100
	62	9811	0	LOWER LEG RIGHT	DRIVER	28	100

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

	REGION NUM	I TEM CODE	SPACE	DESCRIPTIO	N	MATERIAL CODE	LOS PERCENT
	63	9812	0	UPPER LEG LEFT	DRIVER	28	100
	64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
	65	9814	0	HIP JOINT LEFT	DRIVER	28	100
	66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
	67	9816	0	HIPS	DRIVER	28	100
	68	9817	0	TORSO LOWER	DRIVER	28	100
	69	9818	0	TORSO CHEST	DRIVER	28	100
	70	9819	0	UPPER ARM LEFT	DRIVER	28	100
	71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
	72	9821	0	LOWER ARM LEFT	DRIVER	28	100
	73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
	74	9823	0	NECK	DRIVER	28	100
	75	9824	0	HEAD	DRIVER	28	100
56	76	9825	0	KNEE LEFT	DRIVER	28	100
•	77	9826	0	KNEE RIGHT	DRIVER	28	100
	78	9827	0	ELBOW LEFT	DRIVER	28	100
	79	9828	0	ELBOW RIGHT	DRIVER	28	100
	80	9829	0	ANKLE LEFT	DRIVER	28	100
	81	9830	0	ANKLE RIGHT	DRIVER	28	100
	82	9831	0	HAND LEFT	DRIVER	28	100
	83	9832	0	HAND RIGHT	DRIVER	28	100
	84	9833	0	SHOULDER JOINT LEFT	DRIVER	28	100
	85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28	100
	86	9760	0	FUEL CELL		13	5
	87	8910	0	LOWER LEG LEFT	LOADER	28	100
	88	8911	0	LOWER LEG RIGHT	LOADER	28	100
	89	8912	0	UPPER LEG LEFT	LOADER	28	100
	90	8913	0	UPPER LEG RIGHT	LOADER	28	100
	91	8914	0	HIP JOINT LEFT	LOADER	28	100
	92	8915	0	HIP JOINT RIGHT	LOADER	28	100
	93	8916	0	HIPS	LOADER	28	100

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

F	REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTIO	7 A i	MATERIAL CODE	LOS Percent
	NOT	CODE	CODE	DESCRIPTIO	3 N	CODE	PERCENT
	94	8917	0	TORSO LOWER	LOADER	28	100
	95	8918	0	TORSO CHEST	LOADER	28	100
	96	8919	O	UPPER ARM LEFT	LOADER	28	100
	97	8920	0	UPPER ARM RIGHT	LOADER	28	100
	98	8921	O	LOWER ARM LEFT	LOADER	28	100
	99	8922	0	LOWER ARM RIGHT	LOADER	28	100
	100	8923	0	NECK	LOADER	28	100
	101	8924	0	HEAD	LOADER	28	100
	102	8925	0	KNEE LEFT	LOADER	28	100
	103	8926	0	KNEE RIGHT	LOADER	28	100
	104	8927	0	ELBOW LEFT	LOADER	28	100
	105	8928	0	ELBOW RIGHT	LOADER	28	100
	106	8929	0	ANKLE LEFT	LOADER	28	100
Ŋ	107	8930	0	ANKLE RIGHT	LOADER	28	100
7	108	8931	0	HAND LEFT	LOADER	28	100
	109	8932	0	HAND RIGHT	LOADER	28	100
	110	8933	O	SHOULDER JOINT LEFT	LOADER	28	100
	111	0	0	DUMMY		0	0
	112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
	113	9101	0	XR 311 FRONT SHEET META	AL TOP	1	49
	114	9102	0	FRONT BUMBER		1	100
	115	9103	0	SHEET METAL LEFT SIDE		1	49
	116	9104	0	SHEET METAL RIGHT SIDE	E	1	49
	117	9105	0	LEFT ROCKER PANEL		1	49
	118	9105	0	RIGHT ROCKER PANEL		1	49
	119	9102	0	REAR BUMBER		1	100
	120	9106	0	REAR SHEET METAL		1	49
	121	9109	0	FLOOR SKID		1	100
	122	9107	0	FORWARD BULKHEAD		1	100
	123	9108	O	ENGINE DECK SHEET METAL	L	1	49
	124	9149	C	ROLL BAR CORNER		1	17

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTION	CODE	PERCENT
	125	9150	0	RULL BAR CORNER	1	17
	126	9151	0	ROLL BAR SIDE	1	17
	127	9152	0	ROLL BAR SIDE	1	17
	128	9153	0	ROLL BAR CENTRE AND TOP	1	17
	129	9154	0	REAR ROLL BAR CORNER	1	17
	130	9155	0	REAR ROLL BAR CORNER	1	17
	131	9156	0	FRONT HOOD	1	49
	132	9157	0	REAR ROLL BAR SIDE	1	17
	133	9158	0	REAR ROLL BAR SIDE	1	17
	134	9761	0	HE ADLIGHT	1	2
	135	9761	0	HEADLIGHT	1	2
	136	9762	0	STEERING COLUMN	1	15
	137	8762	0	STEERING WHEEL	18	100
S	138	9115	0	FRONT TOP ENGINE DECK	1	49
00	139	9763	0	BATTERY	8	38
	140	9763	0	BATTERY	8	38
	141	9641	0	TOW RING MOUNT	1	55
	142	9642	0	RADIO GRC 160	1	24
	143	9643	0	TOW GUIDANCE SET	» <b>5</b>	21
	144	9406	0	TOW TRAVERSE MOUNT	5	60
	145	7300	0	MISSILE SKIN	5	100
	146	7301	0	LAUNCH MOTOR	2 2	32
	147	7302	0	FLIGHT MOTOR SECTION	2	23
	148	7303	0	WARHEAD NOSE	5	100
	149	7304	0	WARHEAD SECTION	5	55
	150	7305	0	MISCELLANEOUS COMPONENTS	5	23
	151	7306	0	MISSILE CASE	16	99
	152	9500	0	DAY SIGHT	5	40
	153	9510	0	TOW LAUNCHER TUBE	5	99
	154	9511	0	TOW LAUNCHER TUBE	5	99
	155	9512	0	TOW LAUNCHER TUBE	5	99

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTION	CODE	PERCENT
	156	9801	0	CREW BODY ARMOR	12	99
	157	9801	0	CREW BODY ARMOR	12	99
	158	9802	0	NIGHT SIGHT (STOWED)	5	80
	159	9300	0	MISSILE SKIN	5	100
	160	9301	0	LAUNCH MOTOR	2	32
	161	9302	0	FLIGHT MOTOR SECTION	2	23
	162	9303	0	WARHEAD NOSE	5	100
	163	9304	0	WARHEAD SECTION	5	55
	164	9305	0	MISCELLANEOUS COMPONENTS	5	23
	165	9306	0	MISSILE CASE	16	99
	166	9300	0	MISSILE SKIN	5	100
59	167	9301	0	LAUNCH MOTOR	5 2	32
9	168	9302	0	FLIGHT MOTOR SECTION	2	23
	169	9303	0	WARHEAD NOSE	5	100
	170	9304	0	WARHEAD SECTION	5	55
	171	9305	0	MISCELLANEOUS COMPONENTS	5	23
	172	9306	0	MISSILE CASE	16	99
	173	9300	0	MISSILE SKIN	5	100
	174	9301	0	LAUNCH MOTOR	2	32
	175	9302	0	FLIGHT MOTOR SECTION	2	23
	176	9303	O	WARHEAD NOSE	5	100
	177	9304	0	WARHEAD SECTION	5	55
	178	9305	0	MISCELLANEOUS COMPONENTS	5	23
	179	9306	0	MISSILE CASE	16	99
	180	9300	0	MISSILE SKIN	5	100
	181	9301	0	LAUNCH MOTOR	2	32
	182	9302	0	FLIGHT MOTOR SECTION	2	23
	183	9303	0	WARHEAD NOSE	5	100
	184	9304	0	WARHEAD SECTION	5	55
	185	9305	0	MISCELLANEOUS COMPONENTS	5	23
	186	9306	0	MISSILE CASE	16	99

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

	REGION	ITEM	SPACE			MATERIAL	ros
	NUM	CODE	CODE	DESCRIPTIO	JN .	CODE	PERCENT
	187	8810	0	LOWER LEG LEFT	GUNNER	28	100
	188	8811	0	LOWER LEG RIGHT	GUNNER	28	100
	189	8812	0	UPPER LEG LEFT	GUNNER	28	100
	190	8813	0	UPPER LEG RIGHT	GUNNER	28	100
	191	8814	0	HIP JOINT LEFT	GUNNER	28	100
	192	8815	0	HIP JOINT RIGHT	GUNNER	28	100
	193	8816	0	HIPS	GUNNER	28	100
	194	8817	0	TORSO LOWER	GUNNER	28	100
	195	8818	0	TORSO CHEST	GUNNER	28	100
	196	8819	0	UPPER ARM LEFT	GUNNER	28	<b>10</b> 0
	197	8820	0	UPPER ARM RIGHT	GUNNER	28	1 <b>0</b> 0
	198	8821	0	LOWER ARM LEFT	GUNNER	28	100
_	199	8822	0	LOWER ARM RIGHT	GUNNER	28	100
60	200	8823	0	NECK	GUNNER	28	100
	201	8824	0	HEAD	GUNNER	28	100
	202	8825	0	KNEE LEFT	GUNNER	28	100
	203	8826	0	KNEE RIGHT	GUNNER	28	100
	204	8827	0	ELBOW LEFT	GUNNER	28	<b>10</b> 0
	205	8828	0	ELBOW RIGHT	GUNNER	28	100
	206	8829	0	ANKLE LEFT	GUNNER	28	100
	207	8830	0	ANKLE RIGHT	GUNNER	28	100
	208	8831	0	HAND LEFT	GUNNER	28	100
	209	8832	0	HAND RIGHT	GUNNER	28	100
	210	8833	0	SHOULDER JOINT LEFT	GUNNER	28	100
	211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28	100
	212	9738	0	STARTER MOTOR		1.	45
	213	9739	0	STARTER CABLE		7	99
	214	9740	0	GAS LINES		1	20
	215	8300	0	MISSILE SKIN	(READY)	5	100
	216	8301	0	LAUNCH MOTOR	(READY)	2	32
	217	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
218	8303	0	WARHEAD NOSE	(READY)	5	100
219	8304	0	WARHEAD SECTION	(READY)	5	55
220	8305	0	MISCELLANEOUS COMPONENTS	(READY)	5	23
221	8306	0	MISSILE CASE		16	99
222	8307	0	TOW TRIPOD		5	60
223	9801	0	BODY ARMOR		12	99

## APPENDIX B OPTION 1 XR311-TOW DESCRIPTION LISTING

TABLE 8-1. SGLID DATA FOR OPTION 1 XR311

	SGLID NUM TY				SOLID PAR	AMETERS			REMARKS
	1 AR	888	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
			983.0017	-176.0003	597.0014	983.0017	-30.0001	574.9998	
			1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
			1271.0032	-170.C003	597.0014	1271.0032	-30.0001	574.9998	
	2 AR	8.8	983.0017	-30.0001	574.9998	983.0017	-170.0003	597.0014	
		. •	983.0017	-74.9989	651.0020	983.0017	145.9998	574.9998	
			1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
			1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
	3 AR	888	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
	_		983.C017	-74.9989	714.0019	983.0017	145.9998	714.0019	
			1271.0632	145.9998	574.9998	1271.0032	-74.9989	651.0020	
			1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
65	4 AR	25	4	9	0				
			831.0024	31.6008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0C12	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
			831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
			831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
			831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
			831.0024	-54.9986	591.0027	831.0024	-105.9997	1041-0028	
			831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
			831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
			1316.C020	161.9993	714.0019	1316.0020	286.0000	991.0027	
			1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
			1316.0020	-54.9588	991.0027	1316.0020	-105.9997	1041.0028	
			1316.0020	-215.9559	991.0027	1316.0020	-105.9997	714.0019	
			1316.0020	161.99 <b>9</b> 3	714.0019	0.0000	0.0000	0.0000	
			1316.0020	31.0008	906.0012	1316.C020	31.0008	906.0012	
			1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
			1316.0020	31.6008	906.0012	1316.C020	31.0008	906.0012	

TABLE 8-1. SULID DATA FOR OPTION 1 XR311 (CONTINUED)

	SOLID			SULID PAR	AMETERS			REMARKS
		1316.0020	31.0006	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
	5 ARB8	831.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
		831.0024	34.0066	1094.0026	831.0024	180.0003	1041.0028	
		1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
		1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
	6 ARB8	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
		831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
		1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
		1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
	7 RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
		54.5988	0.0000	0.0000	0.0000	0.0000	0.0000	
66	8 RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
•		58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
	9 RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
		81.9991	0.000	0.0000	0.0000	0.0000	0.0000	
	10 RCC	1478.0039	707.0016	939.0011	C.0000	-421.0016	0.0000	
		118.0012	0.000	0.0000	0.0000	0.0000	0.0000	
	11 RCC	767.0017	228.9997	799.0006	0.0000	0.0000	30.0001	
		44.0006	0.000	0.0000	0.0000	0.0000	0.0000	
	12 RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
		42.9998	0.000	0.0000	0.0000	0.0000	0.0000	
	13 ARB8	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
		278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
		488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
		394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
	14 TEC	1316.C020	48.9493	714.0019	280.0005	0.0000	0.0000	TRAN OD
		0.000	0.0000	264.9992	0.0000	-200.0004	0.0000	
		2.0000	0.0000	0.0000	C.0000	0.000	0.0000	
	15 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
		0.0000	0.0000	258.9997	0.0000	-194.0009	0.0000	

		LID							
	NUM	TYPE			SCLID PAR	AMETERS			REMARKS
			2.0000	6.0000	0.0000	0.0000	0.0000	0.0000	
	16	TEC	1596.0026	48.9493	714.0019	161.9993	0.0000	0.0000	
			0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	17	TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
			C.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	18	RCC	1758.0044	48.9993	714.0019	364.9994	0.0000	0.0000	TRANS
			84.9989	0.0000	0.0000	C.0000	0.0000	0.0000	
	19	RCC	1927.0040	146.0013	504.9997	254.9992	0.0000	0.0000	
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	20	RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
7			125.9997	0.000	C.0000	0.0000	0.0000	0.0000	
7	21	BUX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208 <b>.99</b> 96	
			0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
	22	RCC	3898.0086	0.0000	434.C013	-100.0002	0.0000	0.0000	DIFF
			118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	23	SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
	24	RCC	3608.0080	0.000	458.0019	50.0001	0.0000	0.0000	DIFF
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	25	TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
			118.0012	47.0003	0.0000	C.0000	0.0000	0.0000	
	26	SPH	3568.0079	(.000	434.0013	40.0001	0.0000	0.0000	U-JOINT
	27	SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	T/IOL-U
	28	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
			40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	29	RCC	2275.0031	148.0013	504.9997	1260.CG24	-148.0013	-47.0003	PROP
			34.0006	0.000	0.0000	0.0000	0.0000	0.0000	
	30	SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
	31	SPH	3856.0 <b>07</b> 0	-188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
	32	BEX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE 8-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

	NUM S D L	ID TYPE			SCLID PAR	AMETERS			REMARKS
			0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
	33	BOX	861.0024	-215.9999	991.0027	C.0000	-38.3999	81.3997	R COVER
			0.0000	105.9997	50.0001	424.5996	0.0000	0.0000	
	34	RCC	1316.6020	34.000E	991.0027	0.0000	0.0000	90.0002	1210
			44.C006	0.000	0.0000	0.000	0.0000	0.0000	
	35	RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
			30.0001	C.COCC	0.0006	0.0000	0.0000	0.0000	
	36	KCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	LAXLE
			14.9988	0.000	0.0000	0.0000	0.0000	0.0000	
	37	SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	THIOL-U
	38	RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
			14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
68	39	SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	THICL-U
•	40	RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000	R DIFF
			146.0013	0.000	0.0000	0.0000	0.0000	0.0000	
	41	SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
	42	TRC	796.0010	C.CCCC	458.0019	140.0003	0.0000	0.0000	
			118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
	43	RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	44	SPH	746.0009	186.0014	458.0019	40.0001	0.0000	0.0000	
		SPH	746.0009	-166.0014	458.CC19	40.0001	0.0000	0.0000	
	46	TRC	3833.0072	666.0006	416.0003	G.000C	131.9992	0.0000	WHEEL HALF
			218.0014	136.0013	0.0000	0.0000	0.0000	0.0000	
	47	TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992		WHEEL HALF
			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
	48	TOR	3833.0072	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
			293.0003	154.9990	0.000	0.0006	0.0000	0.0000	
	49	RCC	3833.0C72	666.0006	416.0003	0.0000	276.0000	0.0000	
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
	50	RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

	SOI	LID								
	NUM	TYPE			SCLID PARAL	METERS			REMARK	( S
			120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
	51	KCC	3748.0083	784.6020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.000	0.0000	0.0000	0.0000		
	52	RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	G.C000	0.0000	0.0000	0.0000		
	53	RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	C.0000	0.0000	0.0000	0.0000	0.0000		
	54	RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	55	RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	56	TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
ò			218.0014	138.0013	0.000	C.0C00	0.0000	0.0000		
	57	TRC	3833.0072	-666.0008	416.0003	C.0000	-131.9992	0.0000	WHEEL	HALF
			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
	58	TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
			293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
	59	RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000		
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
	60	RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC	
			120.0002	0.000	0.0000	0.0000	0.0000	0.0000		
	61	RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	6 <b>2</b>	RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	63	RCC	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.000	WHEEL	HOLE
			30.0001	C.C000	0.0000	0.0000	0.0000	0.0000		
	€4	RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.000	0.0000		
	65	RCC	3806.7409	-824.C021	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.000	0.0000	0.0000	0.0000	0.0000		

SOL	ID								
	TYPE			SGLID PARA	METERS			REMARI	<b>( S</b>
66	TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.0014	136.0013	0.0000	0.0000	0.0000	0.0000		
67	TRC	767.0017	942.0008	416.0C03	0.000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
68	TOR	767.0017	804.CC21	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	G.C000	0.0000		
69	RCC	767.0017	666.0008	416.0003	0.0000	276.C000	0.0000		
		218.0014	0.0000	0.0000	0.0000	6.0000	0.0000		
70	RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC	
		120.C002	0.0006	0.0000	0.0000	0.0060	0.0000	ROTOR	
71	RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.00Cl	0.0000	0.0000	0.0000	0.0000	0.0000		
72	RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.000	0.0000	0.0000	0.000C		
73	RCC	835.7674	784.0020	366.0383	C.COOO	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	C.0000	0.0000	0.0000		
74	RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.000	0.0000	0.0000		
75	RCC	740.7355	764.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.CC01	0.0000	0.0000	0.0000	0.0000	0.0000		
76	TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
77	TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
78	TUR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.000	0.000	0.0000	0.0000		
79	RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	0.0000	0.0000	0.000	0.0000	0.0000		
6 C	RCC	767.0017	-764.0020	416.0603	0.0000	11.9990	0.0000	DISC	
		120.0002	0.0006	0.0000	0.0000	0.0000	0.0000		
81	RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE

	LID TYPE			SOLID PAR	AMETERS			REMARKS
		30.0001	0.0000	0.0000	C.0000	0.0000	0.0000	
82	RCC	740.7355	-824.0021	335.1594	0.0000	40.0001		WHEEL HOLE
		30.000i	0.0000	0.0000	0.0000	0.0000	0.0000	
83	RCC	835.7674	-824.0021	366.0383	0.0000	40.0001		WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84	RCC	835.7674	-824.0021	465.9623	0.0000	40.0001		WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
8 <b>5</b>	RCC	740.7355	-824.0021	496.8412	0.0000	40.0001		WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86	TOR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
		310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87	ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
		1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
		1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
		1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88	RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89	ARBB	1628.0042	-690.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
	,	1625.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
		1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
		1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90	RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91	ARB8	1628.C042	-914.0023	837.0019	1628.C042	914.0023	837.0019	ENG COMPT
		1628.0042	640.0C16	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
		1626.0026	-914.0023	637.0019	1626.0026	914.0023	837.0019	BULKHEAD
		1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92	ARBB	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
		1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
		1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD
		1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93	ARBB	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
		1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

	sol	LID							
	NUM	TYPE			SELID PAR	AMETERS			REMARKS
			2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
			1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
	94	ARB8	2197.8630	144.999C	752.0004	1630.0032	144.9990	752.0004	TRANS
			1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
			2145.6303	144.9590	888.0027	1630.6032	144.9990	868.0027	
			1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
	95	RPP	1630.0032	2200.0043	-52.9998	277.0008	451.9999	752.0004	TRANS
	96	RPP	1630.0032	2198.0053	-51.9991	274.9993	451.5999	752.0004	TRANS
	97	RPP	1630.C032	2200.0043	147.0005	277.0008	752.0004	754.0020	TRANS TOP
	98	SPH	1887.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
	99	SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
	100	RCC	1016.0015	0.0000	458.0019	831.CG24	148.0013	47.0003	R PROP OD
1			40.0001	C.COCC	0.0000	0.0000	0.0000	0.0000	
)	101	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
			34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
	102	SPH	767.0017	723.6011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
	103	SPH	767.0017	-723.CG11	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
	104	RCC	746.0009	228.0615	458.0019	0.0000	454.9996	-41.9991	RR AXLE
			14.9985	0.0000	0.0000	0.6000	0.0000	0.0000	
	105	RCC	746.0009	-228.0015	458.0019	0.000	-454.9996	-41.9991	RR AXLE
			14.9988	0.000	0.0000	0. <b>00</b> 00	0.0000	0.0000	
	106	TOR	578.0021	170.0003	740.0014	14.CO05	30.0001	0.0000	HSO FOSE
			500.C016	30.0001	0.0006	0.0000	0.0000	0.0000	
	107	RPP	373.0005	923.0615	-20.0000	300.0006	1090.0021	1270.0025	H2O HUSE
	108	AR68	2642.0041	601.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
			2287.0047	294.9993	557.0013	2642.0041	294.9993	627.0015	

528.6910 2306.3494

458.8909 2661.3514

557.0013 2187.0045

1047.0023 2287.0047

543.0033 2118.4166

801.0023

294.9993

801.0023

294.9993

801.0023

458.8909

528.8910

557.0013

1033.0043

1047.0023 SEAT

2661.3514

2306.3444

2187.0045 2218.4168

109 ARBS 2287.6047

801.C023

294.9493

801.0023

294.9993

801.6023

SCLID NUM TYPE			SOLIC PAR	AMETEKS			REMARKS
	2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
110 AKBE	2642.0041	-001.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-294.9993	557.0013	2642.0041	-244.9993	627.0015	
	2561.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
	2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
111 ARB8	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-294.9993	1047.0023	2287.0047	-294.9993	557.0013	
	2218.4168	-801.0u23	543.0033	2118.4166	-601.0023	1033.0043	
	2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
112 RCC	2200.0043	148.0C13	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
•	100.0002	0.0000	0.000	0.0000	0.0000	0.0000	
113 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
114 RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
•	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	2000.09	66.0149	0.0000	0.000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	50.0002	ó6•ú149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 R€C	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.8638	546.0021	999 <b>.</b> 28 <b>57</b>	-49.6115	0.0000		TORSO UP
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT

	SOLID			SCLIO PARA	AMETERS			REMARKS
		47.5007	0.0000	0.0000	0.0000	0.0000	0.3000	
	125 RCC	2272.2546	355.4998	1254.5084	69.4540	0.000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	126 TRC	2341.7089	740.5016	£97 <b>.</b> 1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	127 TRC	2341.7089	355.4948	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	128 RCC	2272.2546	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	C.0000	0.0000	G.0000	0.0000	0.0000	
	129 ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	C.COCO	0.0000	6.0000	0.0000	0.0000	
	130 SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
7,	131 SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
-	132 SPH	2341.7084	740.5016	897.1950	42.4994	0.0000	0.0000	ELBOW LT
	133 SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
	134 SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
	135 SP.H	3201.0070	460.5013	509.0002	50.0001	0.000	0.0000	ANKLE RT
	136 REC	2610.6756	740.5018	949.4766	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.000	44.9986	0.0000	
	137 REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
		-9.5403	C • 00 C C	49.0806	0.0000	44.9988	0.0000	
	138 SPH	2281.7951	736.0024	1205.4278	50.0001	0.0000	0.0000	SHED JNT L
	139 SPH	2281.7951	350.0017	1205.4278	56.0001	0.0000	0.0000	SHLC JNT R
	140 TRC	2879.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
	141 TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LCW LEG LT
		66.0149	50.6001	0.0000	0.0000	0.0000	0.0000	
	142 TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
		66.0149	56.0001	0.0000	0.0000	0.0000	0.0000	
	143 TRC	2386.7407	-460.5013	£€5 <b>.</b> 5309	492.7772	0.0000	95.7863	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.CO <b>O</b> O	0.0000	

	SOLID							
	NUM TYPE			SELID PARA	AMETERS			REMARKS
	144 TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		60.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
	145 SPH	2356.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
	146 \$PH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
	147 REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1676	0.0000	19.6546	
	148 REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	144.4990	0.0000	105.0345	0.0000	20.4166	
	149 REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	144.9990	0.0000	105.0345	C.C000	20.4166	
	150 RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
75	151 RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
٥.		47.5007	C.0000	0.0000	0.0000	0.0000	0.0000	
	152 TRC	2341.7089	-355.4598	697.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4594	30.0001	0.0000	0.0000	0.0000	0.0000	
	153 TRC	2341.7089	-740.5016	697.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	154 RCC	2272.2546	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	0.0000	G.COOC	0.0000	0.0000	0.0000	
	155 ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.000	0.0000	
	156 SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000	0.0000	KNEE LT
	157 SPH	2879.5179	-635.5003	761.3172	66.0149	U. C000	0.0000	KNEE KT
	158 SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW LT
	159 SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW RT
	160 SPH	3201.0070	-466.5013	509.0002	50.0001	C.0000	0.0000	ANKLE LT
	161 SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE RT
	162 REC	2610.6756	-355.4998	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	C.0000	44.9988	0.0000	
	163 REC	2610.6756	-740.5018	949.4786	103.0711	C.0000	20.0356	HAND RT

SULID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164 SPH	2281.7951	-358.0017	1205.4278	50.0001	0.0000		SHLD JNT L
165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000		SHLD JNT R
166 ARB8	3952.0066	66.0011	825.0003	3452.0057	111.9992		FUEL CELL
TOO MKDO	3452.0057	0.0001	971.0026	3952.0066	0.0000	825.0003	(ONE)
	3890.0075	69.1006	609.0004	3352.0055	114.4275	657.0015	TUNE
	3352.0055	C.0000	657.0015	3890.0075	0.0000	609.0004	
167 ARBB	3952.0066	68.0011	825.0003	3452.0057	111.9992		FUEL CELL
101 AKDO							
	3452.0057	221.5954	971.0026	3952.0066	181.9993	825.0003	(TWO)
	3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0006	
140 4000	3414.0071	220.4271	609.0008	3890.0075	161.9993	657.0015	Furi Crii
168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007		FUEL CELL
	3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
	3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
	3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5680	
169 ARB8	3890.0075	0.000	609.0004	3890.0075	-291.9995		FUEL CELL
	3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
	3352.0055	0.000	609 <b>.0004</b>	3352.0055	-235.9999	609.0004	
	3452.0057	-386.0007	985.COO6	3452.0057	0.0000	985.0006	
170 ARR6	3988.0087	337.0009	755.0002	4296.0078	337.0009		FEND INSD
	4295.8503	338.2963	721.4848	3987.8513	336.2963	753.4863	
	4247.0085	454.0014	828.0 <b>0</b> 26	4246.8510	455.2968	826.4862	
171 ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014		FEND INSD
	4246.8231	-455.3349	£26.5218	3937.8233	-338.3344	753.5219	
	3988.0087	-458.0019	86 <b>4.002</b> 2	3987.8233	-459.3329	862.5214	
172 ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
	4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219	
	3988.0087	458.0019	664.0022	3987.8233	459.3329	862.5214	
173 ARB6	3100.0060	-494.CC15	1101.0029	3988.0087	-458.0019	864.0022	FEND INSC
	3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576	
	4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
174 ARE6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND INSD
	3987.6760	459.3456	£02.5569	3099.6758	495.3451	1099.5576	
	4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588	
175 ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8180	-455.2968	626.4913	3987.6182	-459.2973	862.4909	
	4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902	
176 ARB6	3486.0067	458.0019	664.0022	4247.0085	454.0014	828.0026	FEND INSD
	4246.818ú	455.2968	826.4913	3987.8182	459.2973	862.4909	
	4152.0070	694.0019	1046.0015	4151.6191	695.2973	1044.4902	
177 ARB6	3100.0060	-494.0015	1101.0029	4152.CO70	-694.0019	1046.0015	FEND INSD
	4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217	
	4017.0060	-894.0022	1080.0021	4016.6582	-894.2385	1078.0209	
178 ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND INSD
	4151.8597	694.2381	1044.0229	3099.8567	494.2377	1099.0217	
	4017.0080	894.0022	1080.0021	4016.6582	894.2385	1078-0209	
179 AR86	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1086.0021	FEND INSD
	4016.9623	-894.0022	1076.0031	3099.9603	-494.0015	1099.0014	
	3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014	
180 ARB6	31C0.006C	494.0015	1101.0029	4017.0C80	894.0022	1080.0021	FEND INSD
	4016.9623	894.0622	1078.0031	3099.9603	494.0015	1099.0014	
	3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014	
181 RPP	4296.0078	4371.0092	-508.002C	510.0010	546.0005	723.0011	BUMBER
182 ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
	3464.9955	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
	3100.0060	893.0015	1101.0029	3059.9958	891.0838	1100.4339	
183 ARB6	4017.0080	-694.0022	1080.0021	3465.0054	-917.0020	1013.0017	BCDY SIDE
	3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
	3100.0060	-893.0015	1101.0029	3099.9958	-691.0838	1100.4339	
184 ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
	3412.0996	915.6107	981.8434	3465.0994	915.0107	1012.8442	
	3100.0060	893.0C15	1101.0029	3100.0974	891.Cl01	1100.8429	

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
185 ARB6	3465.0054	-917.6020	1013.0017	3412.0056	-917.0020	982.0009	BCDY SIDE
	3412.099E	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
	3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
186 ARB6	3412.0056	917.0020	982.C009	3007.0061	917.0020	971.0026	BODY SIDE
	3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
	3100.006C	<b>693.001</b> 5	1161.0029	3100.0162	891.0355	1100.6321	
187 ARB6	3412.0056	-917.0C20	962.0009	3007.0061	-917.0020	971.0026	BODY SIDE
	3007.0162	-915.0361	970.6318	3412.6158	-915.0361	981.6326	
	3100.0060	-693.0015	1101.0029	3100.0162	-891.0355	1100.6321	
188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	90DA 21DF
	3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
	3007.0061	917.002C	971.0026	3007.0061	915.0005	971.0026	
189 ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
	3412.0056	-915.0005	971.0026	3412.C056	-915.0005	982.0009	
	3007.0061	-417.0020	971.0026	3007.0061	-915.0005	971.0026	
190 ARB8	3412.005€	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
	2926.0052	917.0026	837.0019	3007.0061	917.0020	971.0026	
	3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
	2926.0052	915.0065	837.0019	3007.0061	915.0005	971.0026	
191 ARB6	3412.0056	-917.0020	971.0026	3362.0055	<b>-917.0</b> 020	837.0019	BCDY SIDE
	2926.0052	<b>-917.</b> 0020	837.0019	3007.0061	-917.0020	971.0026	
	3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	
	2926.0052	-915.0005	837.0019	3C07.C061	-915.0005	971.0026	
192 ARB8	3362.0055	917.0020	637.0019	3235.0050	843.0014	451.9999	BODY SIDE
	1354.0031	843.6014	451.9999	1229.0016	917.0020	837.0019	
	3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
	1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
193 ARB8	3362.0055	<b>-917.</b> 0020	837.0019	3235.0050	-843.0014		BODY SIDE
	1354.0031	-643.C014	451.9999	1229.0016	-917.0020	837.0019	
	3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
	1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	

## TABLE 8-1. SCLID DATA FER OPTION 1 XR311 (CONTINUED)

	SCI	LID							
	NUM	TYPE			SOLID PAR	AMETERS			REMARKS
	154	ARBS	3235.0056	843.0014	451.9999	3211.00 <b>7</b> 0	716.0009	369.0000	RUCKER PAN
			1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
			3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
			1380.0027	714.9661	370.6738	1354.0031	841.9066	453.6763	
	195	ARBE	3235.0050	-843.0014	451.9999	3211.0070	<b>-716.</b> 0009		ROCKER PAN
			1390.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
			3235.CC5C	-841.9056	453.6763	3211.0070	-714.9061	370.6738	
			1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
	196	ARBH	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMBER
			180.0003	746.0009	491.0017	180.6003	792.0005	678.0023	
			121.9992	<b>-791.</b> CG23	678.0023	121.9992	-742.0004	491.0017	
			121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
79	197	ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMBER
			173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
			128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
			128.3492	741.0251	497.3517	128.3492	763.9004	671.6523	
	198	ARBB	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
			1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
			1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	
			1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
	199	ARBE	1701.0041	<b>-917.002</b> 0	1031.0028	1757.0037	-917.0020	837.C019	REAR SIDE
			1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0026	
			1701.0041	-915.0005	1031.0026	1757.GC37	-915.0005	837.0019	
			1229.0016	-915.0005	637.0019	1171.0030	-915.0005	1031.0028	
	200	ARBB	1666.002 <b>7</b>	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
			128.4995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
			1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
			128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
	2 C 1	APBB	1566.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
			128.9995	-917.CO20	1031.0028	115.9997	-893.0015	1123.0019	
			1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	

	Sut								
	NUM	TYPE			SULID PAR	AMETERS			KEMARKS
			126.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
	202	AFB8	351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
			180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
			351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678	
			180.0003	790.1158	676.6678	128.9995	915.1173	1031.6708	
	203	ARBB	351.0014	-917.0020	1031.0028	224.9992	-792.0005	676.0023	REAR SIDE
			180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
			351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
			180.0003	-790.1158	678.6676	128.9995	-915.1173	1031.6708	
	204	ARB8	115.9997	893.C015	1123.0019	128.9995	917.0020	1031.0628	REAR
			180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
			117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
			161.9790	792.C1C7	678.2843	184.2549	351.0116	678.2843	
80	205	AR88	115.9997	-893.C015	1123.0019	128.9995	-917.0020	1031.0028	REAR
•			180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
			117.9804	-893.0116	1123.2639	130.9807	-917.0122	1031.2847	
			181.9790	-792.0107	678.2843	184-2549	-351.0116	678.2843	
	206	ARB6	115.9997	893.C015	1123.0019	182.2737	351.0014	678.0023	REAR
			164.2523	351.0014	678.297C	117.9784	893.0015	1123.2966	
			115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
	207	ARB6	115.4997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
			184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
			115.9997	-351.CC14	1123.0019	117.9784	-351.0014	1123.2466	
	208	ARBS	4296.0076	C.0C0C	546.0005	4140.0C80	0.0000	321.0014	FLOOR SKID
			4140.0060	261.5955	321.0014	4296.0076	311.0014	546.0005	
			4290.7906	0.000	549.6201	4134.7908	0.0000	324.6184	
			4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
	209	ARBE	4296.0078	0.0000	546.0005	4140.0060	0.0000	321.0014	FLOGR SKID
			4146.00%6	-261.4995	321.0014	4296.0078	-311.0014	546.0005	
			4290.7906	0.0000	549.6201	4134.7906	0.0000	324.6184	
			4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	

SCL	.15							
NUM	144 F			SCLID PAR	AMETERS			KEMARKS
210	ARB6	4140.0086	<b>6.0000</b>	321.0014	3957.0079	0.0000	288.0016	FLOGR SKID
		3957.0079	261.9995	288.0016	4140.CC80	261.9995	321.0014	
		4138.8803	0.0000	327.2498	3955.6602	0.0000	294.2500	
		3955.8802	261.9995	294.2500	4138.6603	261.9995	327.2498	
211	ARBS	4140.0080	0.0000	321.0014	3957.0079	0.0000	285.0016	FLOOK SKID
		3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
		4138.8603	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.6802	-261.9555	294.2500	4138.8803	-261.9995	327.2498	
212	ARBS	3957.0079	0.000	288.0016	3214.CG67	0.0000	369.0000	FLOOR SKID
		3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	270.0005	375.3144	3957.£937	261.9995	294.3135	
213	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOUR SKID
		3214.0067	-270.0005	369.0000	3957.0C79	-261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214	ARBS	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.C070	714.0019	369.0000	3237.7863	841.0024	451.9999	
		3360.1030	915.0005	637.6166	3209.1020	0.0000	369.6146	
		3209.1020	714.0019	369.6146	3235.8638	641.0024	452.6145	
215	ARBS	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
		3360.1030	-915.0005	637.6166	3209.1020	0.000	369.6146	
		3209.1020	-714.0019	369.6146	3235.8838	-841.0024	452.6145	
216	ARBS	3211.007C	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
		3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
		3209.1147	0263	369.6527	3360.1157	914.9802	837.6547	
		3410.1158	914.5802	982.6537	3424.6320	0203	994.6527	
217	ARBS	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
		3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
		3209.1147	. 0203	369.6527	3360.1157	-914.9802	837.6547	

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TABLE 8-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

	SOF NOW	ID TYPE			SOLID PAR	AMETERS			REMARKS
			3410.1158	-914.9862	982.6537	3424.6320	.0203	994.6527	
	218	RPP	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
	219	ARB8	1316.0020	843.0014	1287.0027	92.9999	643.0014	1287.0027	ENG DECK
			92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
			1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
			115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
	220	ARBB	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
			95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
			1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
			118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
	221	TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
			148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	222	TOR	2843.0053	-635.0000	1385.0014	1.0006	0.0000	.7798	ROLL BAR
82			148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	223	ARB6	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	ROLL BAR
			2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
			2792.6604	635.0000	1345.6395	2749.1062	844.2511	1402.2024	
			2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
	224	ARBU	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
			2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
			2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
			2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
	225	RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	226	RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338,0017	ROLL BAR
			27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	227	KCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
			27.0003	0.0000	0.0000		0.0000	0.0000	
	228	RCC	2735.0046	0.0000	1522.0019	351.8498	0.0000		CENTRE BAR
			11.9990	0.000 <b>0</b>	0.0000	C.CCCO	0.0000	0.0000	
	229	TUR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

SCLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
230 TOR	1540.0036	-660.0013	1424.0033	51.0009	0.0000	15.9995	FOLL BAR
	120.0002	27.0063	0.0000	0.0000	0.0000	0.0000	CORNER
231 ARB6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
	1562.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
232 ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR
	1460.0029	-643.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
	1582.0020	-672.0063	1461.0036	1480.C029	-672.0003	1429.0020	
233 RCC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR KULL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.000	0.000	0.0000	BAR SIDE
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR POLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RCC	2753.0051	200.6004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.000	0.0000	0.0000	SUPPORT
237 PCC	2050.0040	464.4596	1601.0039	-550.0011	207.0007	-54.0006	
	27.0003	0.000	0.0000	0.0000	0.0000	0.0000	
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MGUNT
	27.0003	0.0000	0.0000	C.0000	0.0000	0.000	SUPPORT
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 ARB8	3988.0087	456.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HUOD
	4296.0078	C.000C	723.0011	4296.0078	378.0017	723.0011	
	3987.1756	458.(019	062.1835	3987.1756	0.C000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	376.0017	721.1825	
241 ARBE	3988.0087	-456.0019	864.0022	3988.0087	6.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
	3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	

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	ID TYPE			SOLID PAR	AMETERS			REMARKS
242	ARB8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	наар
		3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	C.0000	862.0692	3987.4931	-458.0019	862.0692	
		3099.4404	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243	ARBB	3988.C087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
		3100.0060	494.0015	1101.0029	3100.6060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
		3099.4904	494.6015	1099.0699	3099.4904	0.0000	1099.0699	
244	ARB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009		FEND INSD
		4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
		4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245	ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000		<b>HEADLIGHT</b>
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246	RPP	4040.0076	4220.0082	170.0003	530.0010	683.0011	1053.0018	<b>HEADLIGHT</b>
247	ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000		HEADLIGHT
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248	RPP	4040.0078	4220.0082	-530.CC10	-170.0C03	683.0011	1053.0018	HEADLIGHT
249	RCC	2777.0056	548.0C21	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
		20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250	TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
		190.0004	14.9986	0.0000	C.COCO	0.0000	0.0000	
251	RPP	1341.0034	1666.0027	-693.0015	893.C015	1123.0019	1125.0009	TOP DECK F
252	RPP	1416.0022	1620.0031	326.0001	580.C011	453.0006	681.0021	BATTERY
253	RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254	RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
		330.0006	0.0000	C.0C00	0.0000	0.0000	0.0000	MOUNT
255	RCC	2238.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
		300.0006	(.ucou	C.0000	0.0000	0.0000	0.0000	MOUNT
256	BCX	3377.0066	-870.0017	937.0021	0.0000	168.0013	0.0000	RADIO SET
		-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	GRC 160
257	BGX	3377.0068	-65C.C013	437.0021	0.0000	406.0003	0.0000	GUIDANCE

TABLE 8-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

	SOL	. <b>I</b> D							
	NUM	TYPE			SCLID PAR	AMETERS			REMARKS
			-82.2201	U.COUO	-240.3307	-380.0007	0.0000	130.0003	TOW SET
	258	RCC	2448.0058	-420.0006	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
			100.0002	0.6000	0.0000	0.0000	0.0000	0.0000	UNIT
	259	KPP	2363.0043	2533.0047	-504.9997	-334.9994	1720.0033	1948.0048	TRAVERSE
	260	ARBB	2498.0059	-291.0013	1710.0033	2578.0060	-291.0013	1695.0020	TRAVERSE
			2578.0060	-291.0013	1950.0638	2498.0059	-291.0013	1950.0038	UNIT
			2498.0059	-546.0021	1710.0033	2578.0060	-548.0021	1695.0020	
			2578.0060	-548.0021	1950.0038	2498.0059	-548.0021	1950.0038	
	261	ARBB	2398.0057	-291.0013	1710.0033	2318.0055	-291.0013	1695.0020	TRAVERSE
			2318.0055	-291.6013	1950.0038	2358.0057	-291.0013	1950.0038	UNIT
			2398.0057	-548.6021	1710.0033	2318.0055	-548.0021	1695.0020	
~			2318.0055	-548.0021	1950.0038	2358.0057	-548.0021	1950.0038	
85	262	RCC	2448.0058	-534.5598	1885.0024	0.0000	-80.0002	0.0000	
			40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	263	SPH	2448.0058	-420.0006	1650.0032	1.0008	0.0000	0.0000	
	264	SPH	2448.0058	-420.0006	1650.0032	1.0008	0.0000	0.0000	
	265	RCC	1843.5647	-420.0008	1885.0024	638.0099	0.0000	0.0000	MSSLE S-IN
			74.2064	C.0000	0.0000	C.0000	0.0000	0.0000	EXTERIOR
	266	RCC	1843.5647	-420.0008	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
			72.9364	0.0000	C.0000	0.0000	0.0000	0.0000	INTERIOR
	267	TRC	2593.2715	-420.0006	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	C•0000	0.0000	EXTERIOR
	268	TRC	2593.2715	-420.0008	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
			72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
	269	RCC	1843.5647	-420.0008	1885.0024	434.7227	0.0000	0.0000	LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MCTOR
	270	RCC	2481.5745	-42C.COOE	1885.0024	111.6969	0.0000	0.0000	FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTER
	271	SPH	2536.4616	-420.0008	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
	272	RPP	2593.2715	2619.9416	-494.2072	-345.7944	1810.7985	1959.2088	FLHT MOTOR
	273	RCC	2795.8119	-420.0008	1885.0024	147.9556	0.0000	0.0000	WARHEAD

TABLE 6-1. SULID DATA FOR OPTION 1 XR311 (CONTINUED)

REMARKS		WARHEAD	0	AR	OSE -	S	XTERIO	SSLE C	16	I GH							LAUNCHER	00		10	CHE	APER	⋖	œ	H		LAUNCHER		AUNC		
	• 000	• 000	• 000	- 00C	•	•	•	•	000000	•	•	•	•	•	•	•	•	•	•	•	•	•	000000	•	•	•	•	0000 0	40	512.4115	2.839
	• 000	000000	• 000	.000	000	.000	.000	• 000	000000	.000	• 000	.000	.000	4.504	.800	.000	.000	.000	• 000	.000	000	• 000	0000 • 0	• 000	0.000.0	000.	.000	• 000	1710.0033	000	0000.0
RAMETERS	.000	.425	.000		000	O	9	7	00	~	00	~	00	60	.000	00	.001	00	01	00	C	00	100.C002	0	000	00		00	00.0	_	117.5009
SOLID PAR	0	05	0000	05	000	<b>C</b> 2	ပ္	02	. coo	000	.000	.004	00	11.801	.153	01.600	85.0C2	000.	005	.000	1685.0024	000.	005	000.	.002	000.	2	000.	0000	44.062	000.
	٠ د	-420°C00E	<u>.</u>	·	0000° a	•	000000	<u>٠</u>	<u>ت</u>	9	٠ ٥	61.0	0.3	2493.8047	311.8	၁•၁	•	<b>ာ</b>	-42C . C008	• •	0 • 0	J • C	•	74.9	<b>•</b>	0000.0	•	0000.0	عد	546.00	157.6991
	63.500	3,767	63.500	3.767	096.09	0.003	80.645	1.629	76.517	1.404	64.897	41.404	50.800	41.404	366.604	000.0	8.005	84.000	48.005	81.CCC	8.C07	64.000	8.007	1.000	8.007	7.000	8.007	855.42	2448.0058	371.475	000.
SOLID NUM TYPE		274 ELL1		275 ELL1		276 RCC		277 RCC		278 KCC		279 RCC		280 RPP	81 KA		282 RCC		283 RCC		284 TRC		285 TRC		266 P.CC		287 RCC		288 RPP	89 RE	

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
290 REC	2371.4753	546.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0006	157.6991	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.000	N S FRNT
	54.0006	0.000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292 RCC	2030.0039	-579.0004	553.000F	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 RPP	1741.0041	1778.0045	-757.0617	-686.000ē	514.9997	643.0010	N S
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	6.00 <b>0</b> 0	0.0000	0.0000	PIECE
295 RPP	1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296 ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.C017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.000	0.0000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	G.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.6000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTER1OR
301 RCC	1200.0023	-706.4403	1368.0037	C.00C0	434.7227	0.0000	LAUNCH
	26.5431	0.0000	C.CO00	0.0000	0.0000	0.0000	MOTOR
302 RCC	1200.0023	-68.4304	1368.0037	6.0000	111.6969	C.000 <b>0</b>	FLIGHT
	74.2064	C.0000	0.000	0.000	0.0C00	0.0000	MOTOR
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 RPP	1125.7959	1274.2087	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
305 RCC	1200.0023	245.6069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.000	0.0000	0.0000	0.0000	
306 ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD

	SOL	ID TYPE			SOLID PARA	AMETERS			REMARKS
			63.5003	0.0000	C.0000	0.0000	0.0000	0.0000	NOSE - EXT
3	07	ELLI	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	C.0000	0.0000	NOSE -INT
3	80	RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	C.COGO	0.0000	0.0000	EXTERIOR
3	09	RCC	1200.0023	-746.3758	1368.0037	0.000	1282.4993	0.0000	MSSLE CASE
:			76․517ե	0.0000	0.0000	0.CC00	0.0000	0.0000	INTERIOR
3	10	RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
3	11	RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
3	12	TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
' 3	13	TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN
			72.933E	62.2277	0.000	0.000	0.0000	0.0000	INTERIOR
3	14	RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
			26.5431	0.000	0.0000	0.0000	0.0000	0.0000	MOTOR
3	15	RCC	1010.C020	-118.4305	1368.0037	0.0000	111.6969		FLIGHT
			74.2064	0.0000	0.000	C.OCOO	0.0000	0.0000	MOTOR
		SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000		FLHT MOTOR
		RPP	<b>935.7</b> 956	1084.2083	-6.7336	19.9365	1293.7973		FLHT MOTOR
3	18	RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556		WARHEAD
			63.5003	C.OOCO	0.0000	0.0000	0.0000	0.0000	
3	19	ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000		NOSE - EXT
3	20	ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854		WARHEAD
			60.9602	0.0006	0.0000	0.0000	0.0000		NOSE -INT
3	21	RCC	1010.6020	-800.0015	1368.0037	0.0000	1285.7505		MSSLE CASE
			80.6453	0.000	C.0000	0.0000	0.0000		EXTERIOR
3	22	RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993		MSSLE CASE
			76.5178	0.0000	0.000	0.0000	0.0000	0.0000	INTERIOR

TABLE 8-1. SCLID DATA FOR GPTION 1 XK311 (CONTINUED)

	SOLID							
	NUM TYPE			SULID PARA	METERS			REMARKS
	323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
		74.2064	0.0000	0.0000	0.0000	0.000	0.0000	EXTERIOR
	324 RCC	820.0016	-706.4463	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
		72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	325 TKC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	326 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		72.9338	62.2277	C.000C	0.0000	0.000û	0.0000	INTERIOR
	327 RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	328 RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	C.0000	0.0000	MOTOR
89	329 SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
_	330 RPP	745.7952	894.208C	43.2665	69.9366	1293.7973		FLHT MOTOR
	331 RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.000	0.0000	0.0000	0.000	
	332 ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.000	0.0000	C.00 <b>0</b> 0	0.0000	NOSE - EXT
	333 ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.000	0.0000	0.0000	0.0000	NOSE -INT
	334 RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	335 RCC	820.0016	-748.3758	1368.0037	C.OCOO	1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	336 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
		74.2064	0.0000	C.O000	0.0000	0.0000	0.0000	EXTERIOR
	337 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
		72.9364	0.0000	0.0000	0.000	0.0000	0.0000	INTERIOR
	338 TRC	630.0012	-t.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		74.2064	63.500 <b>3</b>	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	339 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN

SOLI	ID							
NUM 1				SOLID PARA	AMETERS			REMARKS
		72.433b	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
340 (	KCC	630.0012	-756.4404	1368.0037	0.6600	434.7227	0.0000	LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
341	RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342	SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343 F	RPP	555.7948	704.2076	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
344	RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345	ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346	ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.000	0.0000	0.0000	0.0000	NOSE -INT
347	RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
		80.6453	0.000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348	<b>SCC</b>	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349	TRC	2240.0043	-46.5000	816.G011	C.0000	0.0000	-364.0012	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350	TKC	2240.0043	-221.5016	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351	TRC	2240.0043	-46.5000	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
		80.0002	66.6149	0.0000	C.0000	0.0000	0.0000	
352	TRC	2240.0043	-221.5016	1318.0036	0.0000	C.0000	-502.0000	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.000	0.0000	
353	SPH	2240.0043	-46.5000	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354	SPH	2240.0043	-221.5016	1318.0036	69.4998	0.0000	0.0000	HIP JNT RT
355 F	REC	2240.0043	-134.0008	1238.0034	0.0000	0.0000	160.0003	HIPS
		0.0000	157.C006	0.0000	102.9999	0.0000	0.0000	
356	KEC	2240.0043	-134.0608	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
		0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	

	SOLID							
	NUM TYPE			SOLIU PAR	AMETERS	•		REMARKS
	357 REC	2240.0043	-134.0008	1658.0042	0.0000	0.0000	260.0005	TORSO UP
		0.0000	144.9490	0.0000	107.0005	C.0000	0.0000	
	358 RCC	2240.0043	58.4990	1918.0047	0.0000	13.9904	-363.7320	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	359 RCC	2240.0043	-326.5005	1918.0047	0.0000	-13.9904	-363.7320	UP ARM RT
		47.5007	C.0000	0.0000	0.0000	0.0000	0.0000	
	360 TKC	2240.0043	72.4893	1554.2728	0.0000	10.5309	-273.7978	LOW ARM LT
		42.4954	30.0001	0.0000	0.0000	0.0000	0.0000	
	361 TRC	2240.0043	-340.4909	1554.2728	193.7469	•5309	-193.7977	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	362 RCC	2240.0043	-134.0008	1918.0047	0.0000	0.0000	71.9991	NECK
		60.5005	0.0000	0.0000	C.COCO	0.0000	0.0000	
91	363 ELL1	2240.0043	-134.0008	2038.0050	100.0002	0.0000	0.0000	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
	364 SPH	2240.0043	-46.500C	816.0011	66.0149	0.0000	0.000 <b>0</b>	KNEE LT
	365 SPH	2240.0043	-221.5016	816.0011	66.0149	0.0000	0.0000	KNEE RT
	366 SPH	2246.0043	72.4893	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
	367 SPH	2240.0043	-340.4909	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
	368 SPH	2240.0043	-46.5000	400.0008	50.0001	0.0000	0.0000	ANKLE LT
	369 SPH	2240.C043	-221.5016	400.0008	50.0001	0.0000	0.0000	ANKLE RT
	370 REC	2240.0043	82.5198	1280.4825	0.000	0.0000	-104.9989	HAND LEFT
		50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
	371 REC	2433.7512	-340.4909	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
		34.9988	0.0600	34.9988	C.0000	44.9988	0.0000	
	372 SPH	2240.0043	55.9996	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
	373 SPH	2240.0043	-324.0011	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
	374 RCC	1316.0020	-231.0012	550.0011	-200.0004	U.0000	0.0000	STARTER
		60.0001	0.0000	0.000	0.0000	0.0000	0.0060	
	375 RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
		4.0005	0.0000	0.0000	0.000	0.0000	0.0000	
	376 RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER

TABLE 8-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

	S G L Num	ID TYPE			SULID PAR	AMETERS			REMARKS
			4.0005	C.0000	0.0000	0.0000	0.0000	0.0000	
	377	KCC	801.0023	226.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	378	RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	379	RCC	3717.7568	334.0012	430.0006	0.0000	0.0000	258.9997	GAS LINE
			4.0005	0.0000	0.0000	C.0000	0.0000	0.0000	
	380	RCC	1843.5647	-697.C016	1885.0024	638.0099	0.0000	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	381	RCC	1843.5647	-697.0016	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
			72.9364	0.000	0.000	0.0000	0.000	0.0000	INTERIOR
	382	TRC	2593.2715	-697.0016	1885.0024	202.5404	0.0000	0.0000	<b>MSSLE SKIN</b>
2			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
92	383	TRC	2593.2715	-697.0016	1885.0024	202.5404	0.0000	0.0000	<b>MSSLE SKIN</b>
			72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
	384	RCC	1843.5647	-697.0016	1885.0024	434.7227	0.0000	0.0000	<b>L AUNCH</b>
			26.5431	C.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	385	RCC	2481.5745	-697.0016	1685.0024	111.6969	0.0000	0.0000	FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	386	SPH	2536.4616	-697.0016	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
		RPP	2593.2715	2619.9416	-771.2080	-622.7952	1810.7985	1959.2088	FLHT MCTOR
	388	RCC	2795.8119	-697.CO16	1885.0024	147.9556	0.0000		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	389	ELLI	2943.7674	-697.0016	1885.0024	98.4254	0.0000		WARHEAD
			63.5003	0.0000	C.OCOO	0.000	0.0000		NOSE - EXT
	390	ELLI	2943.7674	-697.0016	1865.0024	95.8854	0.0000		WARHEAD
			60.9602	0.0000	0.000	0.000	0.0000		NOSE -INT
	391	RCC	1800.0035	-697.0016	1885.0024	1285.7505	0.0000		MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000		EXTERIOR
	392	KCC	1801.6291	-697.0016	1685.0024	1282.4993	0.0000		MSSLE CASE
			76.5178	0.0000	0.0000	C.0000	0.0000	0.0000	INTERIOR

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

	SOL	ID							
	NUM	TYPE			SOLID PAR	AMETERS			REMARKS
	393 (	RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.3000	TRIPOD
			74.4969	0.0000	0.000	0.0000	0.0000	0.0000	CENTRE
	394	RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
			24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	395	RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
			24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	396	RCC	1140.0022	743.C012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
			24.9986	0.0000	0.0000	0.0000	0.0000	0.0000	
	397	REC	2240.0043	-134.0008	1398.0037	C.0000	0.0000	520.0010	ARMOR VEST
			C.0000	157.6991	0.0000	119.7005	0.0000	0.000C	
	398	REÇ	1748.0044	-204.9991	1885.0024	1140.0022	0.0000	0.0000	ARMOR
			0.0000	584.9999	0.0000	0.0000	0.0000	340.0007	SHROUD OD
9	399	REC	1748.0044	-204.5951	1885.0024	1140.0022	0.0000	0.0000	ARMOR
M			0.000	574.9998	0.0000	0.0000	0.0000	330.0006	SHROUD ID
	400	ARB8	2618.0061	400.0008	1610.0031	1958.0048	400.0008	1610.0031	SHROUD
			1748.0044	400.0008	2242.0033	2688.0066	400.0008	2242.0033	LIMITER
			2618.0061	-820.0016	1610.0031	1958.0048	-820.0016	1610.0031	
			1748.0044	-820.0016	2242.0033	2888.0066	-820.0016	2242.0033	
	401		140.0003	1300.0025	-830.C016	580.0011	1287.0027	1487.0031	TOW ARMOR
	402	RPP	160.0003	1280.0025	-810.0016	560.0011	1287.0027	1467.0031	TOW ARMOR
	403	ARBE	3988.0087	-458.CC19	8 <b>64.0022</b>	3988.0087	458.0019	864.0022	HOOD ARMOR
			3100.0060	494.CO15	1101.0029	3100.0060	-494.0015	1101.0029	(APRON)
			3988.0087	-45E.C019	684.7007	3988.0087	458.0019	884.7007	
			3100.0060	494.0015	1121.7014	3100.0060	-494.0015	1121.7014	
	404	ARB8	3100.0060	-920.C018	1101.0029	3100.0060	920.0018		WINDSHIELD
			2698.0062	760.0015	1610.C031	2698.0062	-760.0015	1610.0031	ARMOR
			3100.0060	-920.0018	1140.7922	3100.0060	920.0018	1140.7922	
			2698.0062	760.0015	1671.7939	2698.0062	-760.0015	1671.7939	
	405	ARBS	3100.0060	920.0018	1101.0029	130C.0025	920.0018		LEFT SIDE
			1300.0025	760.0015	1610.0031	2698.0062	760.0015	1610.0031	ARMOR HI
			3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029	

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TAELL 8-1. SOLIC DATA FOR OPTION 1 XR311 (CONTINUED)

	sot	LID							
	NUM	TARE			SOLID PAR	AMETERS			REMARKS
			1300.0025	780:0015	1610.0031	2698.0062	780.0015	1610.0031	
	406	ARB8	3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029	LEFT SIDE
			1400.0027	920.001E	831.0024	2930.0057	920.0018	831.0024	ARMOR LC
			3100.0060	940.0016	1101.0029	1300.0025	940.0018	1101.0029	
			1400.0027	940.0016	831.0024	2930.0057	940.0018	831.0024	
	407	ARB8	3100.0060	-920.0016	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
			1300.0025	-760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR HI
			3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
			1300.0025	-780.0015	1610.0031	2698.0062	-780.0015	1610.0031	
	408	ARE8	3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
			1400.0027	-920.0018	831.0024	2930.0057	-920.0016	831.0024	ARMOR LO
က			3100.0000	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
94			1400.0027	-940.0C18	631.0024	2930.0057	-940.0018	831.0024	
	409	RPP	1300.0025	2698.0062	-780.0015	780.0015	1610.0031	1630.0032	ARMOR
	410	RCC	2288.0054	-140.0003	1610.0031	0.0000	0.0000	30.0001	ROOF RING
			330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	CUTOUT

	REG NUM								ŘEGI	ON (	COMBINAT	ION DAT	Δ			REMARKS
	1	OR	1	GR	2	Uƙ	3		С		0	0	U	0	С	SUMP
	2		4		-35		0		O		0	0	0	0	0	BLOCK
	3	OR	5	OR	٤		-10¢		C		0	0	0	0	C	MANIFOLD
	4		7		C		O		С		0	G	0	0	0	CARB
	5		3		-14		C		0		0	0	0	0	O	OIL FILT
	6		9		0		C		0		0	0	0	0	0	PUMP H20
	7		10		0		0		C		0	O	o	0	0	AIR FILT
	8		11		O		0		0		0	Ú	. 0	0	C	PUMP GAS
	9		12		С		0		0		0	0	0	0	0	GAS FILT
	10		13		-106		, O		0		0	O	0	0	0	RADIATOR
	11		16		-8		-17		-100		o	0	0	0	0	TRANS ADP
	12	OR	18	DR	19	OK	26	ŪŔ	21	OR	14	-15	-100	0	0	TRANS
	13	OR	22	ŪR	23	OR	24	OR	25		G	C	C	Q	C	
95	14		26		O		0		C		0	C	0	0	0	
	15		27		C		C		O		0	0	0	0	C	
	16		28		-29		-26		0		U	0	0	0	C	
	17		30		0		C		0		O	0	0	0	0	
	18		31		0		C		C		0	0	0	0	0	
	19		32		0		C		0		0	0	0	0	C	
	20		33		O		0		0		0	0	0	0	0	
	21		34		O		O		C		C	0	0	O	0	
	22		35		O		0		U		0	0	0	0	0	
	23		36		C		O		C		0	0	0	0	0	
	24		37		0		O		С		G	0	0	0	C	
	25		38		C		0		0		O	C	0	0	0	
	26		39		0		C		C		0	O	0	0	0	
	27	OK	40	C۶	41	OK	42	Uβ	43		-99	0	0	0	С	
	28		44		C		C		C		С	0	0	0	C	
	29		45		O		C		O		0	0	C	0	C	
	30		48		-44		C		0		0	С	0	0	0	TIRE
	31		49		-46		-47		-51		-52	-53	-54	-55	0	WHEEL

	REG NUM							ŔĔĠĨŌ	N CU	MP I N	ATION D	ATA				REMARKS
	32		58		-59		С	o		0	0		C	0	0	TIRE
	33		59		-56	- 5	7	-61		-62	-63	-6	4 -	-65	0	WHEEL
	34		68		-69		C	0		0	0		0	0	0	TIRE
	35		69		-66	-6	7	-71		-72	-73	-7	4 .	-75	C	WHEEL
	36		78		-79		C	C		0	0		С	0	C	TIRE
	37		79		<b>-</b> 76	<del>-</del> 7	7	-61		-62	<b>−63</b>	-8	4 .	-85	0	WHEEL
	38		86		87	-	7	-10		-34	<del>-</del> 5		0	C	0	AIR HOSE
	39		88	-	-112	-1	8	-19		-20	-21	-9	1 .	-92	-100	FLW
	40	0R	89	OR	9 C	-1	6 GR	92	OR	91	-16	-10	0	0	0	BULKHD
	41		93		-94		C	O		0	0		0	0	0	TRANS COVER
	42	•	95		-96	-2	7	-112		G	0		0	0	C	TRANS COVER
	43		97		C		C	O		0	C		0	0	0	TRANS COVER
96	44		98		C.		C	O		0	0		0	0	C	TRANS U JNT
6	45		99		0		O	0		0	C		0	C	0	TRANS U JNT
	46		100	-	-101		С	C		0	C		0	0	О	REAR PROP
	47		102		0		C	C		0	0		0	0	0	U-JGINT
	48		103		C		C	O		C	0		0	0	0	U-JOINT
	49		104		C		C	G		0	0		0	0	0	REAR AXLE
	50		105		0		U	0		С	C		0	0	G	REAR AXLE
	51		106		107		O	C		0	0		0	0	0	H20 HOSE
	52		50		O		C	O		0	G		0	0	0	CISC BRAKE
	53		60		-39		Ċ	U		0	0		0	0	C	DISC BRAKE
	54		70		0		C	О		0	0		0	0	O	DISC BRAKE
	55		80	-	-103		0	0		0	G		0	0	0	DISC BRAKE
	56		114		112	-11	3	O		0	0		C	0	0	TUNNEL
	57		108		0		0	O		O	0		0	0	0	SEAT
	58		109		0		Ù	0		0	0		0	0	0	SEAT
	59		110		0		C	0		0	0		0	0	0	SEAT
	60		111		O		C	0		0	0		0	0	0	SEAT
	61		115	-	-117	-13	C	-134		0	0		0	0	0	LOW TEE TI
	62		116	-	-118	-13	1	-135		0	0		0	0	0	LOW LEG RT

TABLE 8-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG								,		
NUM				REGION	COMBINATION	DATA			1	REMARKS
63	117	-130	-119	-121	0	0	0	0	C	UP LEG LT
64	118	-131	-12C	-121	0	0	O	0	0	UP LEG RT
65	119	0	0	O	0	0	0	0	0	HIP JNT LT
66	120	0	C	0	0	0	0	0	0	HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0	HIPS
68	122	-123	O	0	0	0	0	0	0	TORSO LOW
69	123	0	0	O	0	0	O	0	0	TORSO UP
70	124	-132	-126	-138	0	0	0	0	0	ARM UP LT
71	125	-133	-127	-139	0	C	0	0	0	ARM UP RT
72	126	-132	C n	O	O	0	0	0	0	ARM LOW LT
73	127	-133	0	0	0	0	0	0	0	ARM LOW RT
74	128	-123	0	O	0	0	0	0	O	NECK
75	129	-126	C	0	0	0	0	0	C	HEAD
76	130	O	0	O	0	0	0	0	0	KNEE LT
77	131	C	O	0	0	C	0	0	0	KNEE RT
78	132	С	C	C	0	C	O	0	0	ELBOW LT
79	133	0	C	O	C	C	0	0	0	ELBOW RT
80	134	O	C	U	O	O	Ö	0	0	ANKLE LT
£1	135	C	O	C	0	0	0	0	0	ANKLE RT
82	136	-126	С	0	0	0	0	- O	C	HAND LEFT
83	137	-127	-250	С	C	O	0	0	0	HAND RT
84	138	-123	0	<b>C</b>	0	C	0	0	0	SHLD JNT L
85	139	-123	C	C	O	0	С	0	0	SHLD JNT R
86 DR	166 DR	167 (	3R 168 OR	169	0	0	0	0	0	FUEL CELL
87	141	-143	-156	-160	0	0	C	0	0	LOW LEG LT
88	142	-144	-157	-161	0	C	0	0	0	LOW LEG RT
89	143	-156	-145	-147	C	O	0	C	C	UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0	UP LEG RT
91	145	C	0	C	0	0	0	0	0	HIP JNT LT
92	146	Ö	O	o	0	C	0	0	C	HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	Ċ	HIPS

	REG NUM								REGI	DN	COMBI	TAP	IGN DA	ATA			•			REMARKS
	94		148		-149		C		c		0		0		0		0		0	TORSO LOW
	95		149		Ū		C		0		0		0		0		0		O	TORSO UP
	96		150		-158		-152		-164		0		0		0		0		0	ARM UP LT
	97		151		-159		-153		-165		0		0		C		0		C	ARM UP RT
	98		152		-158		0		0		0		O		0		0		0	ARM LOW LT
	99		153		-159		C		C		0		0		0		0		0	ARM LOW RT
	ļ00		154		-149		Ć		0		0		0		0		0		0	NECK
	101		155		-154		L		0		0		0		0		0		0	HEAD
	102		156		С		C		0		0		C		C		C		0	KNEE LT
	103		157		0		C		0		0		O		0		0		0	KNEE RT
	104		158		Ü		C		0		0		C		0		0		O	ELBOW LT
	105		159		0		C		0		J		0		O		O		0	ELBOW RT
98	106		160		Ü		Û		0		0		0		O		0		0	ANKLE LT
98	107		161		C		С		0		0		0		C		0		0	ANKLE RT
	108		162		-152		0		C		C		0		C		0		0	HAND LEFT
	109		163		-153		0		С		0		0		0		0		0	HAND RIGHT
	110		164		-149		0		0		0		0		0		0		0	SHLD JNT L
	111		0		0		C		0		0		O		0		0		0	DUMMY
	112		165		-149		C		0		0		0		0		0		0	SHLD JNT R
	113	OR	170	OR	172	UR	174	GR	176	Эĸ		ūR	180	OR	243	OR	240		-170	FT TOP LF
	114		181	0.0	-218	σ.	C	3.0	C		0	50	0		0	<i>c</i> . <b>c</b>	0		0	F BUMBER
	115	UK	202	OR	184	U F	186	UK	188	ÜK		UK	192	ÜΚ	198	UK	200	UR		LEFT SIDE
			-180	8.5	0		Ü	<b>~ -</b>	0	G 5	0		0		0	~ ~	0		0	
	116	UR	203	UK	185	UF	187	UΚ	189			Lik	193	UK	199	ÜΚ	201	OR		RIGHT SIDE
			-179		0		0		0		0		0		0		0		0	200452 157
	117		194		-192		-88		-214		-92		0		0		0		0	ROCKER LFT
	118		195		-193		-88		-215		-92		0		0		0		0	ROCKER RGT
	119	4 : D	196	O.D	-197	(14)	0		3.03	0.0	205		202		O		0		0	REAR BUMBER
	120		206	CR	207		204	CO	-202			O.P.	-203		0		0		0	R SHT MET
		OR OR	208 214	OR OR	209 215	UR ne	210 217	LK	211 <del>-</del> 28			UK	213 -28		0		0		0	FLOOR SKID BULKHEAD
	1 2 2	UK	614	UK	617	UK	C 1 (		- 20	UK	210		-20		U		U		U	BUCKIICAU

REG															
NUM						REGIO	IN (	COMBIN	ATI	ON DA	ATA				REMARKS
123	219	-220		C		Ö		0		С		0		0	O ENG DECK
124	221	223		C		0		0		C		C	(	0 (	O ROLL BAR
125	222	224		0		O		0		0		0	1	0 (	O ROLL BAR
126	226	-223		0		0		0		0		0	1	0 (	O ROLL BAR
127	227	-224		0		C		0		O		0	: 1	0	C ROLL BAR
128 UR	228 UR	225	Uk	236	DR	2 <b>3</b> 8	OR	233	OR	239	OR	237	-23	1	O ROLL TOP
129	229	231		-233		0		0		G		0		0	C ROLL BAR RR
130	230	232		-233		-239		0		0		0	1	0 (	O ROLL BAR RR
131 OR	244 DK	171	OK	173	DR	175	OR	177	GR	179	OK	242	DR 24	1 -24	4 FT TOP RT
132	234	-16		0		0		o		0		0	(	0 (	O ROLL BAR RR
133	<i>2</i> 3 5	-16		0		Ú		0		C		0		0 (	O ROLL BAR RR
134	245	246		С		C		0		C		0		0	O HEADLIGHT
135	247	248		C		С		0		0		0	(	0 (	HEADLIGHT
136	249	0		Ü		0		0		0		0		0 (	STEERING C
137	250	U		C		0		0		0		0		0 (	STEERING W
138	251	-235		-234		O		0		0		O		0	C ENG TP DC
139	252	G		C		0		C		0		0		0 (	D BATTERY
140	253	C.		C		0		0		0		0		0	O BATTERY
141	254	-255		С		0		0		0		0		0	O TOW RING
142	256	C		С		0		0		0		0		0	O GRC160 RADI
143	257	0		O		U		0		C		C		0	O GUIDANCE
144 OR	262 CR	258		-259		-260		-261		0		Ü		0	O TOW MOUNT
145 OR	265	-266	OR	267		-268		-271		C		0		0	O MISSILE SKN
146	269	0		0		0		0		0		0		0	O LAUNCH MOTE
147 OK	270 OR	271		272		0		0		0		0		0	O FLIGHT MOTE
148	274	-273		-275		G		0		0		0		0	O WARHEAD NSE
149 DR	268	-272	Dk	273		0		0		0		0		0	O WARHEAD
150	266	-269		0		0		0		0		0		0	O MISCL - AFT
151	276	-277		0		0		0		C		0		0	C MISSILE CAS
152 OR	278 DR		DR	28C	OR	281		0		C		0		0	O SIGHT
153	282	-283		-288		O		0		0		0		0	O LAUNCHER

	R E G NUM								REGI	CIN (	COMBI	NAT	ION DAT	ΓΔ			REMARKS
														• • •			
	154		284		-205		C		0		0		С	C	)	o <b>c</b>	LAUNCHER
	155		266		-287		0		0		0		0	0	)	0 0	LAUNCHER
	156		289		-148		-149		-154		-164		-165	-150	-15	1 0	BODY ARMOR
			-158		-159		-152		-153		0		0	0		C O	
	157		290		-122		-123		-128		-138		-139	-124	-12	5 0	BODY ARMOR
			-132		-133		-126		-127		0		C	(	)	0 0	
		OR	291	UR	292		293	CK	294	CR	295	GR	296	(	)	0 C	NIGHT SIGH
	159	OR	297		-298	CR	299		-300		-303		0	(	)	0 0	
	160		301		0		0		0		0		0	C	)	0 0	
	161	OR	302	OR	303		304		0		0		0	C	)	0 0	
	162		306		-305		-307		C		O		0	(	)	O O	
	163	OR	300		-304	ÜR	305		0		0		0	C	)	0 0	
<u>-</u>	164		298		-301		0		Ú		0		0	C	)	0 0	MISCL - AFT
100	165		308		-309		С		0		0		0	(	)	0 0	MISSILE CAS
	166	OR	310		-311	UŔ	312		-313		-316		0	C	)	0 0	<b>MISSILE SKN</b>
	167		314		O		0		C		0		0	(	)	0 0	
	168	OR	315	ÐΚ	316		317		0		0		0	C	)	0 0	FLIGHT MOTR
	169		319		-318		-320		0		0		0	C	)	0 0	WARHEAD NSE
	170	OR	313		-317	Oβ	318		0		0		0	C	)	0 0	W
	171		311		-314		0		0		0		0	C		0 0	MISCL - AFT
	172		321		-322		C		0		0		0	C	)	0 0	MISSILE CAS
	173	GR	323		-324	ВR	325		-326		-329		0	0	)	0 0	MISSILE SKN
	174		327		G		O		C		0		0	(	)	0 0	
	175	OR	328	OR	329		330		C		0		0	C	)	0 0	FLIGHT MOTR
	176		332		-331		-333		0		0		0	C	)	0 0	-WARHEAD NSE
	177	OR	326		-330	ao.	331		0		0		0	C	)	0 0	WARHEAD
	178		324		-327		O		0		0		0	C	)	0 0	MISCL - AFT
	179		334		-335		0		0		0		0	C	)	0 0	MISSILE CAS
	180	OR	336		-337	GR	336		-339		-342		0	C	;	0 0	MISSILE SKN
	181		340		Ü		0		0		0		0	C	)	0 0	LAUNCH MOTR
	182	OR	341	OR	342		343		C		0		c	C	)	0 0	FLIGHT MOTR

REG NUM				REGION	CLMBINA	TION DATA				REMARKS
183	345	-344	-346	0	0	0	O	0	0	WARHEAD NSE
184 DR	339	-343 U		(i	0	0	0	0	•	WARHEAD NOE
185	337	-340	יייכ יי כ	-	0	_	_	<del>-</del>		
186	347	-348	0	C C	C	0	O	0	0	MISCL - AFT
187			-	_	0	0	0	0	0	MISSILE CAS
	349	<b>-351</b>	-364	-368	-95	-93	0	0	0	LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	LOW LEG RT
189	351	-364	-353	-355 356	0	Ç	Ö	0	0	UP LEG LT
190	352	-365	-354	-355	0	O	0	0	0	UP LEG RT
191	353	0	C	C	0	C	0	0	0	HIP JNT LT
192	354	O	С	O	0	0	0	0	0	HIP JNT RT
193	355	-353	-354	-356	o	0	0	0	C	HIPS
194	356	-357	Ĺ	C	0	0	0	C	0	TORSO LOW
195	357	C	O	0	0	C	0	0	0	TCRSD UP
196	358	-366	-360	-372	0	C	C	0	0	ARM UP LT
197	359	-367	-361	-373	-276	C	C	0	0	ARM UP RT
198	360	-366	C	O	0	O	Û	0	C	ARM LOW LT
199	361	-367	C	O	C	0	0	0	0	ARM LOW RT
200	362	-357	O	0	0	O	0	0	C	NECK
201	363	-362	U	0	0	0	O	0	0	HE AD
202	364	-93	C	G	0	0	0	0	0	KNEE LT
203	365	G	O	O	C	0	0	0	0	KNEE RT
204	366	Ö	C	C	C	0	0	C	0	ELBOW LT
205	367	0	0	O	C	0	С	0	0	ELBOW RT
206	368	0	e	O	0	0	0	0	0	ANKLE LT
207	369	Ö	Ô	Ö	0	0	0	0	0	ANKLE RT
208	370	-360	C	O	0	Ō	0	Ō	0	HAND LT
209	371	-361	Č.	Ö	Ō	Ü	Ō	0	Ö	HAND RT
210	372	-357	Č	Ö	0	0	Ö	0	Ċ	SHLD JNT L
211	373	-357	-276	č	Ö	o O	č	0	0	SHLD JNT
212	374	C	0	Ö	0	Ö	Ö	0	0	STARTER
213 OR	375 01		C	Ö	Ö	0	Ö	0	Ö	CABLE

TABLE 8-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

	REG														
	NUM								REGIUN	COMBINATIO	N DATA				REMARKS
	214	OR	37 <b>7</b>	CR	376	OR	379		o	O	0	0	0	0	GAS LN
	215	OR	380		-381	OR	3 <i>82</i>		-383	-386	0	O	0	0	MISSILE SKN
	216		384		О		C		0	O	0	C	Ü	C	LAUNCH MOT
	217	UR	385	OR	386		387		C	0	0	0	0	0	FLIGHT MOT
	218		389		-388		-390		0	0	0	0	C	0	WARHEAD NOS
	219	OR	383		-387	UK	386		0	o	e	0	0	0	WARHEAD
	220		381		-384		C		0	0	0	0	0	0	MISCL AFT
	221		391		-392		C		0	0	0	0	0	0	MISSILE CAS
	222	0ĸ	393	OR	394	Uk	395	UR	396	0	G	0	0	0	TRIPOD
			-366		-367		-372		-373	0	0	0	0	0	
	224		400		398		-399		-409	0	C	C	C	0	ARMOR SHROD
	225		401		-402		C		C	0	0	0	0	0	TOW ARMOR
	226		403		O		C		C	0	0	C	0	C	ARMOR HOOD
10.	227		404		-226		-227		-225	0	0	O	0	C	WINDSHIELD
2	228	OR	405	OR	406		C		0	O	0	0	0	0	LEFT ARMOR
	229	OR	407	OR	408		C		0	0	0	0	0	0	RIGHT ARMOR
	230		409		-410		-237		-239	-258 -	-236	-238	0	0	ROOF

TABLE 8-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311

	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CEDF	DESCRIPTION	CODE	PERCENT
	1	9701	0	OIL SUMP	1	2
	2	9702	U	ENGINE BLUCK	4	55
	3	9703	O	INTAKE MANIFOLD	4	20
	4	9704	С	CAPBURATOR	5	50
	5	9705	0	CIL FILTER	1	2
	6	9706	G	WATER PUMP	4	30
	7	9707	0	AIR FILTER	1	2
	8	9708	0	FUEL PUMP	5	30
	9	9709	C	FUEL FILTER	5	5
	10	9710	0	ENGINE RADIATOR	7	15
•	11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
	12	9712	O	AUTOMATIC TRANSMISSION	5	40
	13	9713	0	FRUNT DIFFERENTIAL	1	50
103	14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
3	15	9715	0	FNT TRANSMISSION U-JOINT	1	55
	16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
	17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
	18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
	19	9719	0	LEFT ROCKER ARM COVER	1	2
	20	9720	0	RIGHT KOCKER ARM COVER	1	2
	21	9721	0	DISTRIBUTOR	5	30
	22	9722	0	IGNITION COIL	1	5
	23	9723	0	LEFT FRONT AXLE	1	100
	24	9724	C	LEFT FNT WHEEL U-JOINT	1	55
	25	9725	0	RIGHT FRONT AXLE	1	160
	26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
	27	9727	C	REAR DIFFERENTIAL	1	50
	28	9728	С	REAR LEFT DIFFERENTIAL U-JOINT	1 •	55
	29	9729	O	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
	30	8737	C	TIRE	18	25
	31	9737	0	WHEEL	1	50

TABLE 8-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

	REGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODF	CODE	DESCRIP	TION	CODE	PERCENT
	32	e <b>7</b> 37	0	TIRE		18	25
	33	9737	0	WHEEL		1	50
	34	8737	0	TIRE		18	25
	35	9737	0	hHEEL		1	50
	36	8737	С	TIRE		18	25
	37	9737	Ü	WHEEL		1	50
	38	8704	0	AIR CLEANER HOSE		18	5
	39	9112	0	CHASSIS BODY FLOOR		1	49
	40	9113	0	ENGINE COMPARTMENT B	ULKHEAD	1	100
	41	9114	0	TRANSMISSION COVER		1	49
	42	9114	0	TRANSMISSION COVER		1	49
	43	9114	0	TRANSMISSION COVER T	OP	1	49
<u></u>	44	9730	0	TRANSMISSION REAR U-	JOINT	ī	55
104	45	9731	0	REAR DIFFERENTIAL U-	JOINT	1	55
	46	9736	0	REAR PROP		1	15
	47	9732	0	REAR WHEEL U-JOINT		1	55
	48	9733	0	REAR WHEEL U-JOINT		1	55
	49	9734	0	REAR AXLE		1	100
	50	9735	Ü	KEAR AXLE		1	100
	51	9651	C	RADIATOR WATER HOSE		18	5
	52	9402	O	DISC BRAKE ROTOR		1	100
	53	9403	0	DISC BRAKE ROTOR		1	100
	54	9404	Ö	DISC BRAKE ROTOR		1	100
	55	9405	0	DISC BRAKE ROTOR		1	10C
	56	9756	0	DRIVE TRAIN TUNNEL		1	49
	57	9752	0	SEAT		18	100
	58	9752	0	SEAT		18	100
	59	9752	0	SEAT		18	100
	60	9752	0	SEAT		18	100
	61	9810	O	LOWER LEG LEFT	DRIVER	28	100
	62	9811	C	LOWER LEG RIGHT	DRIVER	28	100

TABLE 8-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

R	EGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODE	CEDE	DESCRIPTIO	in	CODE	PERCENT
	63	9812	o	UPPER LEG LEFT	DRIVER	28	100
	64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
	65	9814	0	HIP JOINT LEFT	DRIVER	28	100
	66	9815	e	HIP JOINT RIGHT	DRIVER	28	100
	67	9816	0	HIPS	DRIVER	28	100
	86	9817	0	TORSO LOWER	DRIVER	28	100
	69	9818	0	TORSO CHEST	DRIVER	28	100
	70	9819	C	UPPER ARM LEFT	DRIVER	28	106
	71	9820	C	UPPER ARM RIGHT	DRIVER	28	100
	72	9821	0	LOWER ARM LEFT	DRIVER	28	100
	73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
	74	9823	0	NECK	DRIVER	28	100
<u> </u>	75	9824	0	HEAD	DRIVER	28	100
105	76	9825	0	KNEE LEFT	DRIVER	28	100
	77	9826	0	KNEE RIGHT	DRIVER	28	100
	78	9827	0	ELBOW LEFT	DRIVER	28	100
	79	9828	0	ELBOK RIGHT	DRIVER	28	100
	80	9829	0	ANKLE LEFT	DRIVER	28	100
	81	9830	0	ANKLE RIGHT	DRIVER	28	100
	82	9831	0	HAND LEFT	DRIVER	28	100
	83	9832	0	HAND RIGHT	DRIVER	28	100
	84	9833	0	SHGULDER JOINT LEFT	DRIVER	28	100
	85	9834	O	SHOULDER JOINT RIGHT	DRIVER	28	100
	86	9760	0	FUEL CELL		13	5
	87	8910	0	LOWER LEG LEFT	LOADER	28	100
	88	8911	0	LOWER LEG RIGHT	LOADER	28	100
	89	8912	0	UPPER LEG LEFT	LOADER	28	100
	90	8913	0	UPPER LEG RIGHT	LOADER	28	100
	91	8914	C	HIP JOINT LEFT	LOADER	28	100
	92	8915	0	HIP JOINT RIGHT	LOADER	28	100
	93	8916	0	H1PS	LCADER	28	100

TABLE 8-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

	REGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTI	GN	CODE	PERCENT
	94	8917	C	TORSO LOWER	LOADER	28	100
	95	8918	0	TORSO CHEST	LUADER	28	100
	96	8919	0	UPPER ARM LEFT	LOADER	28	100
	97	8920	С	UPPER ARM RIGHT	LGADER	28	100
	98	8921	0	LOWER ARM LEFT	LGADER	28	100
	99	8922	0	LÜWER AKM RIGHT	LOADER	28	100
	100	8923	С	NECK	LOADER	28	100
	101	8924	C	HEAD	LOADER	28	100
	102	8925	0	KNEE LEFT	LGADER	28	100
	103	8976	0	KNEE RIGHT	LOADER	28	100
	104	8927	0	ELEGW LEFT	LDACER	28	100
	105	8928	0	ELBOW RIGHT	LDADER	28	100
	106	8929	0	ANKLE LEFT	LOADER	28	100
_	107	8930	C	ANKLE RIGHT	LOADER	28	100
ζ .	108	8931	C	HAND LEFT	LOADER	28	100
	109	8932	0	HAND RIGHT	LCADER	28	100
	110	8933	0	SHOULDER JOINT LEFT	LOADER	28	100
	111	0	0	DUMMY		0	0
	112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
	113	9101	С	XR 311 FRONT SHEET MET	AL TÜP	1	49
	114	9102	C	FPONT BUMBER		1	100
	115	9103	0	SHEET METAL LEFT SIDE		1	49
	116	9104	0	SHEET METAL RIGHT SID	£	1	49
	117	9105	0	LEFT ROCKER PANEL		1	49
	118	9105	O	RIGHT KUCKER PANEL		1	49
	119	9102	C	REAR BUMBER		1	100
	120	9106	С	REAR SHEET METAL		1	49
	121	9109	C	FLCCR SKID		1	100
	122	9107	0	FORWARD BULKHEAD		1	100
	123	9108	0	ENGINE LECK SHEET META	L	1	49
	124	9149	C	RCLL BAK CORNER		1	17

TABLE 8-3. KEGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REG10	N ITEM	SPACE			MATERIAL	LOS
NU	M CODE	CODE	DESCRIPTION		CODE	PERCENT
125	9150	o	RULL BAR CORNER		1	17
126	9151	0	ROLL BAR SIDE		1	17
121	7 9152	G	ROLL BAR SIDE		1	17
128	9153	Ü	ROLL BAK CENTRE AND TOP		1	17
129	9 9154	C	KEAR ROLL BAR CORNER		1	17
130	9155	C	REAR ROLL BAR CORNER		1	17
13	1 9156	0	FRONT HOGD		1	49
13	2 9157	C	REAR ROLL BAR SIDE		1	17
133		0	REAR ROLL BAR SIDE		1	17
134		O	HEADLIGHT		1	2
139	5 9761	O	HEADLIGHT		ī	2
13		0	STEERING COLUMN		1	15
107 137		ů	STEERING WHEEL		18	100
13		0	FRONT TOP ENGINE DECK		1	49
13		0	BATTERY		8	38
140		O	BATTERY		8	38
14		Ō	TOW RING MOUNT		1	55
14		O	RADIO GRC 160		1	24
14:		Ō	TOW GUIDANCE SET		5	21
14		G	TOW TRAVERSE MOUNT		5	60
14		0	MISSILE SKIN	FIRE	5	100
14		Ō	LAUNCH MGTOR		2	32
14		0	FLIGHT MOTOR SECTION		2	23
14		Û	WARHEAD NOSE		5	100
149		C	WARHEAD SECTION		5	55
150		Ō	MISCELLANEOUS COMPONENTS		5	23
15		O	MISSILE CASE		16	99
15		Ö	DAY SIGHT		5	40
15		Ö	TOW LAUNCHER TUBE		5	99
15		Ö	TOW LAUNCHER TUBE		5	99
15		Ċ	TOW LAUNCHER TUBE		5	99

TABLE 6-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CUBE	DESCRIPTION	CODE	PERCENT
	156	9801	0	CHEN BOLY ARMOR	12	99
	157	9801	C	CREW BODY ARMOR	12	99
	158	9802	C	NIGHT SIGHT (STOWED)	5	80
	159	9300	0	MISSILE SKIN	5	100
	160	9301	0	LAUNCH MOTOR	2	32
	161	9302	Û	FLIGHT MOTOR SECTION	2	23
	162	9303	0	WARHEAD NOSE	· 5	100
	163	9304	0	WARHEAD SECTION	5	55
	164	9305	C	MISCELLANEOUS COMPONENTS	5	23
	165	9306	0	MISSILE CASE	16	99
	166	9300	Ü	WISSILE SKIN	5	100
	167	9301	0	LAUNCH MOTOR	2	32
10	168	9302	C	FLIGHT MOTOR SECTION	2	23
108	169	9303	C	WARHEAD NOSE	5	100
w	170	9304	0	WARHEAD SECTION	5 5	55
	171	9305	C	MISCELLANEOUS COMPONENTS	5	23
	172	9306	0	MISSILE CASE	16	99
	173	930C	0	MISSILE SKIN	5	100
	174	9301	0	LAUNCH MOTOR	2 2	32
	175	9302	0	FLIGHT MCTOR SECTION	2	23
	176	9303	Ú	WARHEAD NOSE	5	100
	177	9304	C	WARHEAD SECTION	5	55
	178	9305	C	MISCELLANEOUS COMPONENTS	5	23
	179	9306	0	MISSILE CASE	16	99
	180	9300	0	MISSILE SKIN	5	100
	181	9301	C	LAUNCH MOTOR	2	32
	182	9302	0	FLIGHT MOTOR SECTION	2	23
	183	9303	C	WARHEAD NOSE	5	100
	184	9304	O	WARHEAD SECTION	5	55
	185	9305	C	MISCELLANEOUS COMPONENTS	5	23
	186	9306	O	MISSILE CASE	16	99

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

	IUN	ITEM	SPACE			MATERIAL	LCS
N	IUM	CODE	CGDE	DESCRIPTIO	) N	CODE	PERCENT
1	.87	8810	C -	LOWER LEG LEFT	GUNNER	28	100
1	.88	8811	O	LUWER LEG RIGHT	GUNNER	28	100
1	.89	8812	C	UPPER LEG LEFT	GUNNER	28	100
1	90	£813	0	UPPER LEG RIGHT	GUNNER	28	100
1	91	8814	0	HIP JOINT LEFT	GUNNER	28	100
1	.92	8815	С	HIP JOINT RIGHT	GUNNER	28	100
1	.93	8816	Ü	HIPS	GUNNER	28	100
1	94	8817	O	TORSO LOWER	GUNNER	28	100
1	95	8818	0	TORSO CHEST	GUNNEF	28	100
1	96	8819	0	UPPER ARM LEFT	GUNNER	28	100
1	.97	8820	0	UPPER ARM KIGHT	GUNNER	28	100
. 1	98	8821	0	LOWER ARM LEFT	GUNNER	28	100
1	99	8822	0	LOWER ARM RIGHT	GUNNER	28	100
໌ 2	00	8823	C	NECK	GUNNER	28	100
2	201	8824	U	HEAD	GUNNER	28	100
2	202	8825	o	KNEE LEFT	GUNNER	28	100
2	203	6886	0	KNEE RIGHT	GUNNER	28	100
2	04	8827	0	ELBOW LEFT	GUNNER	28	100
2	205	8628	U	ELBOW RIGHT	GUNNER	28	100
2	206	6829	0	ANKLE LEFT	GUNNER	28	100
2	207	8830	0	ANKLE RIGHT	GUNNER	28	100
2	808	8831	G	HAND LEFT	GUNNER	28	10C
2	209	8832	C	HAND RIGHT	GUNNEK	28	100
2	210	8833	Ū	SHOULDER JOINT LEFT	GUNNER	28	100
2	211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28	100
2	212	9738	С	STARTER MOTOR		1	45
2	213	9739	С	STAPTEF CABLE		7	99
2	14	9740	O	GAS LINES		1	20
2	215	€300	0	MISSILE SKIN	(READY)	5	100
2	216	8301	0	LAUNCH MOTOR	(READY)	2	32
2	17	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE B-3. REGIONS IDENTIFICATION FOR CPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CÚDE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
			,			
218	8303	0	WARHEAD NOSE (F	REAGY)	5	100
219	8304	С	WARHEAD SECTION (F	READY)	5	55
220	8305	O	MISCELLANEOUS COMPONENTS (F	READY)	5	23
221	8306	0	MISSILE CASE		16	99
222	8307	C	TOW TRIPOD		5	60
223	9801	0	GODY ARMOR		. 12	99
224	8224	C	ARMOR SHROUD		12	79
225	8225	C	1CW ARMOR BOX		12	79
226	8226	O	ARMOR HOCD		12	79
227	8227	C	WINDSHIELD		12	79
228	6228	Ü	LEFT SIDE ARMOR		12	79
229	8229	Ö	RIGHT SIDE ARMOR		12	79
230	8230	O	ARMOR ROOF		12	79

## APPENDIX C OPTION 2 XR511-TOW DESCRIPTION LISTING

TABLE C-1. SOLID DATA FOR OPTION 2 XP311

10 Z MUN	ID TYPE			SCLID PAP	AMETERS			REMARKS
1	ARBB	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
		983.0017	-170.0003	597.0014	983.0017	-30.0001	574.9998	
		1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
		1271.0032	-170.0003	597.0014	1271.0032	-30.0001	574.9998	
2	ARB8	983.0017	-30.0001	574.9998	983.0017	-170.0003	597.0014	
		983.0017	-74.9989	651.0020	983.0017	145.9998	574.9998	
		1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
		1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
3	ARBS	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
		983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
		1271.0032	145.9998	<b>574.99</b> 98	1271.0032	-74.9989	651.0020	
		1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
1 3i	ARS	4	9	0			•	
51		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
		831.0024	161.9993	714.0019	831.0024	286.000C	991.0027	
		831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
		831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
		831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
		831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
		1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
		1316.0020	-54.9988	991.002 <b>7</b>	1316.0020	-105.9997	1041.0028	
		1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
		1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

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TABLE C-1. SOLID DATA FOR GPTION 2 XR311 (CONTINUED)

	SOL	ID			SOLID PAR	AMETERS			REMARKS
			1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
			1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
	5	ARBS	631.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
			831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
			1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
			1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
	6	ARB8	831-0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
			831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
			1271.0032	34.0006	991.0027	1271.0032	-54.9988	^91.0027	
			1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1.94.0026	
	7	RCC	1067.0023	34.0006	1044.0026	0.0000	0.0000	58.0011	
			54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	8	RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
11.1			58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
<del>-</del> -	9	RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
			81.9991	0.0000	ე.ე000	0.0000	0.0000	0.0000	
	10	RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
			118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	11	RCC	767.0017	228.9997	799.0008	0.0000	0.0000	30.00Cl	
			44.0006	C.0000	0.0000	o.0000	0.0000	0.0000	
	12	RCC	1339.0018	410.000ê	1116.0017	-22.9998	0.0000	-102.9999	
			42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
	13	ARBB	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
			276.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
			488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
			394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
	14	TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
			0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	15	TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	CI MART
			0.0000	0.0000	258 <b>.9997</b>	0.0000	-194.0009	0.0000	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

		ID TYPE			SOLID PAR	AMETERS			REMARKS
			2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	16	TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
			0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	17	TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
			0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
			1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	18	RCC	1758.0044	48.9993	714.0019	364.9994	0.0000	0.0000	TRANS
			84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
	19	RCC	1927.0040	148.0013	504.9997	254.9992	0.0000	0.0000	
			47.0003	0.0000	0.0000	0.000	0.0000	0.0000	
	20	RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
_			125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
7	21	BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
			0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
	22	RCC	3898.0086	0.0000	434.0013	-100.0002	0.0000	0.0000	DIFF
			118.0012	0.0000	0.0000	0.000	0.0000	0.0000	
	23	SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
	24	RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	25	TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
			118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
		SPH	3568.0079	0.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
		SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
	28	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
			40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	29	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
			34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
		SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	
		SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	0.0000	TAIOL-U
	32	BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE C-1. SOLID DATA FOR CPTION 2 XR311 (CONTINUED)

		LID TYPE			SOLID PAR	AMETERS			REMARKS
			0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
	33	вох	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997	R COVER
			0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
	34	RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
			44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
	35	RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	36	RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	L AXLE
			14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	37	SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	TMIOL-U
	38	RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
			14.9968	0.0000	0.0000	0.0000	0.0000	0.0000	
116	39	SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
6	40	RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000	R DIFF
			148.0013	0.0000	0.0000	0.0000	0.0000	0.0000	
	41	SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
	42	TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
			118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
	43	RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	44	SPH	746.0009	188.0014	458.0019	40.0001	0.0000	0.0000	
	45	SPH	746.0009	-188.0014	458.0019	40.0001	0.0000	0.0000	
	46	TRC	3833.0072	666.0008	416.0003	0.0000	131,9992	0.0000	WHEEL HALF
			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
	47	TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
	48	TOR	3833.0072	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
			293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
	49	RCC	3833.0072	666.0008	416.0003	0.0000	276.0000	0.0000	
		-	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
	50	RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

SOL	. ID								
	TYPE			SOLID PARAL	METERS			REMARI	K S
		120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
51	RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
52	RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	C.0000		
53	RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
54	RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
5 <b>5</b>	RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.000	0.0000	0.0000	0.0000		
56	TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
57	TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
58	TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	C.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
59	RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
60	RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC	
		120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
61	RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
62	RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
63	RCC	3901.7729	-£24.0021	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
64	RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
65	RCC	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		

	SOL									
	NUM	TYPE			SOLID PARAL	METERS			REMARK	<b>( S</b>
	66	TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
			216.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
	67	TRC	767.0017	942.0008	416.0003	0.0000	-131,9992	0.0000	WHEEL	HALF
			218.0014	138.0013	0.0000	C.0000	0.0000	0.0000		
	68	TOR	767.0017	804.0021	416.0003	C.0000	1.0008	0.0000	TIRE	
			293.0003	154.9990	0.0000	C.COOO	0.0000	0.0000		
	69	RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000		
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
	70	RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC	
			120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
	71	RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HDLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	72	RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
18	73	RCC	835.7674	784.002C	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	74	RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	75	RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	MHEEL	HOLE
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
	76	TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
			218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
	77	TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
			216.0014	138.0013	0.0000	0.0000	0.0000	0.0 <b>co</b> 0		
	78	TOR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
			293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
	79	RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000		
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
	80	RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000		
			120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	_	
	81	RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	MHEEL	HOLE

	LID TYPE			COLTD DAD	AMETERS			DEMARKS
NOF	1 1176			SOLID PAR	AUFIEK?			REMARKS
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82	RCC	740.7355	-824.0021	335.1594	0.0000	40.0001		WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83	RCC	835.7674	-824.0021	366.0383	0.0000	40.0001		WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84	RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85	RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86	TOR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
		310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87	7 ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
		1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
110		1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
		1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88	RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
8 0	ARB8	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
		1628.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
		1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
		1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
	RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91	L ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	ENG COMPT
		1628.0042	840.0016	451.9999	1628.0042	-840.0016		LOWER CENT
		1626.0026	-914.0023	837.0019	1626.0026	914.0023		BULKHEAD
		1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
98	ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	
		1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	
		1626.0026	-840.0016	451.9599	1626.0026	840.0016		BULKHEAD
		1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93	ARB8	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	
		1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

SOL	ID TYPE			SOLID PAR	AMETERS			REMARKS
				30215 TAN				KEHAKKI
		2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
		1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
94	ARB8	2197.6630	144.9990	752.0004	1630.0032	144.9990	752.0004	TRANS
		1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752 - 0004	
		2145.6303	144.9990	888.0027	1630.0032	144.9990	888.0027	
		1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
95	RPP	1630.0032	2200.0043	-52.9998	277.0008	451.9999	752.0004	TRANS
96	RPP	1630.0032	2198.0053	-51.9991	274.9993	451.9999	752.0004	TRANS
97	RPP	1630.0032	2200.0043	147.0005	277.0008	752.0004	754.0020	TRANS TOP
98	SPH	1887.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
99	SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
		40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
101	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
		34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
102	SPH	767.0017	723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
103	SPH	767.0017	-723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
104	RCC	746.0009	228.0015	458.0019	0.0000	454.9996	-41.9991	RR AXLE
		14.9986	0.0000	0.0000	0.0000	0.0000	0.0000	
105	RCC	746.0009	-228.0015	458.0019	0.0000	-454.9996	-41.9991	RR AXLE
		14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
106	TOR	578.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H20 HOSE
		500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
107	RPP	373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H2D HOSE
108	ARB8	2642.0041	801.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
		2287.0047	294.9993	557.0013	2642.0041	294.9993	627.0015	
		2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
		2306.3494	294.9993	458.8909	2661.3514	294.9993	528.8910	
109	ARB8	2287.0047	801.0023	557.0013	2187.0045	801.0023	1047.0023	SEAT
		2187.0045	294.9993	1047.0023	2287.0047	294.9993	557.0013	
		2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	

SOL	LID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
110	ARB8	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
		2287.0047	-294.9993	557.0013	2642.0041	-294.9993	627.0015	
		2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
		2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
111	ARB8	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
		2187.0045	-294 <b>.9</b> 993	1047.0023	2287.0047	-294.9993	557.0013	
		2218.4168	-901.0023	543.0033	2118.4166	-801.0023	1033.0043	
		2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
112	RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
		100.0002	0.0000	0.0000	0.0000	0.000	0.0000	
113	RCC	2200.0043	148.0013	504 <b>.</b> 99 <b>97</b>	1260.0024	-148.0013	-47.0003	TUNNEL
		98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115	TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
		66.0149	50.0001	0.000	0.000	0.0000	0.0000	
116	TRC	28 <b>7</b> 9.517 <b>9</b>	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117	TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118	TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119	SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
	SPH	2386.7407	460.5013	665.5309	69 <b>.4</b> 9 <b>9</b> 8	0.0000	0.0000	HIP JNT RT
121	REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122	REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123	REC	2321.8638	548.0021	999.2857	-49.6115	0.0000		TORSO UP
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
124	RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT

SOLI	D							
NUM T	YPE			SOLID PAR	AMETERS			REMARKS
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
125 R	CC	2272.2548	355.4998	1254.5084	69.4540	0.0000		UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126 TI	RC	2341.7089	740.5018	897.1950	268.9667	0.0000		LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127 TI	RC	2341.7089	355.4998	897.1950	268.9667	0.0000		LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
128 R	CC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129 E	LLI	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130 \$1	PH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131 \$	PH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132 SI	PH	2341.7089	740.5018	897.1950	42.4994	0.0000		ELBOW LT
133 \$1	PH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134 S	PH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135 SI	PH	3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE RT
136 RI	EC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
137 RI	EC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
138 \$1	PH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139 SI	PH	2281.7951	358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
140 T	RC	2679.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141 T	RC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142 TI	RC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143 TI	RC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	

SOL	ID							
NUM	TYPE			SOLID PARA	AMETERS			REMARKS
144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	*****	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	OF LEG KI
145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000		HIP JNT LT
146		2386.7407	-635.5003	665.5309	69.4998	0.0000		HIP JNT RT
147		2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	
	11.00	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	птез
148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000		TORSO LOW
1.0	11.00	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	IUKJU LUM
149	RFC	2321.8636	-548.0021	999.2857	-49.6115	0.0000	255.2227	all D2ant
_ , ,		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	TOKJU UF
150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
170		47.5007	6.0000	0.0000	0.0000	0.0000	0.0000	OF ARTI LI
151	BCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
171	~~~	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	OF AKII KI
152	TDC	2341.7089	-355.4998	897.1950	268.9667	0.0000		LOW ARM LT
172	INC	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	LUN AKTI LI
153	TPC	2341.7089	-740.5018	897.1950	268.9667	0.0000		LOW ARM RT
173	1 1 1	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	LUW AKM KI
154	prr	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
174	NCC.	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	NEUK
155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
177	LLLI	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	HEAU
156	CDLI	2879.5179	-460.5013	761.3172	66.0149	0.0000		KNEE LT
157		2879.5179	-635.5003	761.3172	66.0149	0.0000		KNEE RT
	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000		ELBOW LT
159		2341.7089	-740.5018	897.1950	42.4994	0.0000		ELBOW RT
160		3201.0070	-460.5013	509.0002	50.0001	0.0000		ANKLE LT
161		3201.0070	-635.5003	509.0002	50.0001	0.0000		ANKLE RT
162		2610.6756	-355.4998	949.4786	103.0711	0.0000		HAND LT
102	NEU	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	HARU LI
163	DEC	2610.6756	-740.5018	949.4786	103.0711	0.0000		HAND RT
103	V C C	FOTO*0110	140.7010	77707100	TODECLTT	0.0000	£ V • V 3 / D	HAITU KI

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SOL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164	C D LL	2281.7951	-358.0017	1205.4278	50.0001	0.0000		SHLD JNT L
165		2281.7951	-738.0024	1205.4278	50.0001	0.0000		SHLD JNT R
_	ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992		FUEL CELL
100	MNDO	3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
		3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	( UNE )
		3352.0055	0.0000	657.0015	3890.0075	0.0000	609.0004	
167	ARBB	3952.0066	68.0011	625.0003	3452.0057	111.9992		FUEL CELL
101	AKDO	3452.0057	221.9994	971.0026	3952.0066	181.9993	825.0003	(TWD)
		3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	(180)
			220.4271	809.0008	3890.0075	181.9993		
1 4 0	A D D O	3414.0071			3728.0082		657.0015	CHEL CCLI
100	ARB8	3668.0081	208.0014	931.0026		360.0007		FUEL CELL
		3952.0066	340.0007	825.0003	3951-8441	182.0197	824.5609	(THREE)
		3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
1 ( 0		3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5680	5.V.5.1
104	ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995		FUEL CELL
		3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
		3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
		3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	
170	ARB6	3988.0087	337.0009	755.0002	4296.0078	337.0009		FEND INSD
		4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863	
		4247.0085	454.0014	926.0056	4246.8510	455.2968	826.4862	
171	ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014		FEND INSD
		4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219	
		3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214	
172	ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
		4246.8231	455.3349	826.5218	3987.8233	338.3344	753.521 <b>9</b>	
		3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214	
173	ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND INSD
		3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576	
		4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

SOL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
174	ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND INSD
		3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576	
		4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588	
175	ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND INSD
		4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909	
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902	
176	ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909	
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902	
177	ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217	
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209	
178	ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND INSD
		4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217	
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209	
179	ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014	
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014	
180	ARB6	3100.0060	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND INSD
		4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014	
		3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014	
181	RPP	4296.0078	4371.0092	-508.0020	510.C010	546.0005	723.0011	BUMBER
182	ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
		3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339	
183	ARB6	4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339	
184	ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
		3412.0996	915.0107	981.8434	3465.0994	915.0107	1012.8442	
		3100.0060	893.0015	1101.0029	3100.0974	691.0101	1100.8429	

SOL	ID								
NUM	TYPE			SOLID PAR	AMETERS			REMARKS	
185	ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE	
		3412.0996	-915.0107	981.8434	3465.0994	<del>-915.01</del> 07	1012.8442		
		3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429		
186	ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE	
		3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326		
		3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321		
187	ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE	
		3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326		
		3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321		
188	ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE	
		3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009		
		3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026		
189	ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE	
		3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009		
		3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026		
190	ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE	
		2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026		
		3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019		
		2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026		
191	ARB8	3412.0056	-917.0020	971.0026	3362.0055	-917.0020	837.0019	BODY SIDE	
		2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026		
		3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019		
		2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026		
192	ARB8	3362.0055	917.0020	837.0019	3235.0050	843.0014	451.9999	BODY SIDE	
		1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019		
		3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783		
		1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803		
193	ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014	451.9999	BODY SIDE	
		1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019		
		3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783		
		1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803		

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
194 ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
	1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
	3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
	1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195 ARB8	3235.0050	-843.0014	451.9999	3211.0070	-716.0009	369.0000	ROCKER PAN
	1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
	3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
	1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196 ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMBER
	180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
	121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
	121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197 ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMBER
	173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
	128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
	128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198 ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
	1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
	1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	
	1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
199 ARB8	1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
	1229.0016	<del>-</del> 917.0020	837.0019	1171.0030	-917.0020	1031.0028	
	1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
	1229.0016	<del>-</del> 915.0 <b>0</b> 05	837.0019	1171.0030	-915.0005	1031.0028	
200 ARB8	1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
	128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
	1666.0027	<b>891.0</b> 660	1122.4965	1701.0041	915.0665	1030.4973	
	128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
201 ARB8	1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
	128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
	1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	

		LID			COL TO 040	AMETERO			
	NUM	TYPE			SOLID PAR	AMETEKS			REMARKS
			128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
	202	ARB8	351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
			180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
			351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678	
			180.0003	790.1158	678.6678	128.9995	915.1173	1031.6708	
	203	ARB8	351.0014	-917.0020	1031.0028	224.9992	-792 • 0005	678.0023	REAR SIDE
			180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
			351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
			180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
	204	ARB8	115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
			180.0003	792.0005	67B.0023	182.2737	351.0014	678.0023	
			117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
			181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
<b>-</b>	205	ARB8	115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
128			180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
			117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
			181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	
	206	ARB6	115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023	REAR
			184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	
			115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
	207	ARB6	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
			184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
			115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
	208	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000		FLOOR SKID
			4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
			4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
			4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
	209	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
			4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
			4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
			4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	

SOL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
210	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0006	288.0016	FLOOR SKID
		3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
		4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
211	ARB8	4140-0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
		3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
		4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
212	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
213	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214	ARB8	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
		3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	
		3209.1020	714.0019	369.6146	3235.8838	841.0024	452.6145	
215	ARBB	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
		3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
		3209.1020	-714.0019	369.6146	3235.8838	-841.0024	452.6145	
216	ARB8	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
		3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
		3209.1147	0203	369.6527	3360.1157	914.9802	837.6547	
		3410.1158	914.9802	982.6537	3424.6320	0203	994.6527	
217	ARB8	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
		3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
		3209.1147	•0203	369.6527	3360.1157	-914.9802	837.6547	

SOL	. ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		3410.1158	-914.9802	982.6537	3424.6320	•0203	994.6527	
218	RPP	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
219	ARB8	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
		92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
		1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
		115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
220	ARBB	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
		95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
		1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
		118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
221	TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0 <b>0</b> 03	0.0000	0.0000	0.0000	0.0000	CORNER
222	TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
223	ARB8	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	ROLL BAR
		2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
		2792.8604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
		2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224	ARB8	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
		2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
		2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
		2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225	RCC	2753.0051	635.0000	1500.0029		-1270.0025	0.0000	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
226	RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
227	RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228	RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000		CENTRE BAR
		11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229	TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

SOLID								
NUM TY	/ PE			SOLID PAR	AMETERS			REMARKS
		120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
230 TO	3R	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
		120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
231 AR	R B 6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR
		1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
		1582.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
232 AR	₹86	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR
		1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
		1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
233 RC	CC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR ROLL
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RC	CC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
235 RC	CC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RC	CC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
237 RC	CC	2050.0040	464.9996	1601.0039	-550.0011	207.0007	-54.0006	
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
238 RC	CC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
239 RC	CC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 AR	R B 8	3988.0087	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
		4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
		3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
		4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241 AR	888	3988.0087	-458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
		4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
		3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
		4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	

SOLI	D							
NUM T	YPE			SOLID PAR	AMETERS			REMARKS
242 A	R B 8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
		3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987-4931	0.0000	862.0692	3987.4931	-458,0019	862.0692	
		3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243 A	RB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	нопо
		3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
		3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244 A	RB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009	723.0011	FEND INSD
		4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
		4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245 E	LLI	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	<b>HEADLIGHT</b>
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246 R	PP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247 E	LL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	<b>HEADLIGHT</b>
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248 R	PP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	<b>HEADLIGHT</b>
249 R	CC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
		20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250 T	DR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
		190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251 R	PΡ	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0009	TOP DECK F
252 R		1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	
253 R		1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	
254 R	CC	2288.0054	-140.0003	1550.0030	0.0000	0.0000		TOW RING
		330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
255 R	CC	2288.0054	-140.0003	1550.0030	0.0000	0.0000		TOW RING
		300.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
256 BI	ΩX	3377.0068	-870.0017	937.0021	0.0000	168.0013		RADIO SET
		-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	
257 BI	D X	3377.0068	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE

SOL								
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET
258	RCC	1678.5021	134.9990	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
		100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259	RPP	1593.5032	1763.5035	50.0001	220.0004	1720.0033	1948.0048	TRAVERSE
260	ARB8	1807.5041	84.9989	1710.0033	1807.5041	4.9987	1695.0020	TRAVERSE
		1807.5041	4.9987	1950.0038	1807.5041	84.9989	1950.0038	UNIT
		1550.5034	84.9989	1710.0033	1550.5034	4.9987	1695.0020	
		1550.5034	4.9987	1950.0038	1550.5034	84.9989	1950.0038	
261	ARBB	1807.5041	184.9991	1710.0033	1807.5041	264.9992	1695.0020	TRAVERSE
		1807.5041	264.9992	1950.0038	1807.5041	184.9991	1950.0038	UNIT
		1550.5034	184.9991	1710.0033	1550.5034	264.9992	1695.0020	
		1550.5034	264.9992	1950.0038	1550.5034	184.9991	1950.0038	
262	RCC	1563.5032	134.9990	1885.0024	-80.0002	0.0000	0.0000	
		40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263	SPH	1678.5021	134.9990	1650.0032	1.0008	0.0000	0.0000	
264	SPH	1678.5021	134.9990	1650.0032	1.0008	0.0000	0.0000	
265	RCC	1678.5021	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE S-IN
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266	RCC	1678.5021	739.4401	1885.0024	0.0000	-638.0099	0.0000	<b>MSSLE SKIN</b>
		72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
267	TRC	1678.5021	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
		74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
268	TRC	1678.5021	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
		72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
269	RCC	1678.5021	739.4401	1885.0024	0.0000	-434.7227	0.0000	LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
270	RCC	1678.5021	101.4302	1885.0024	0.0000	-111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
271	SPH	1678.5021	46.5431	1885.0024	93.4571	0.0000		FLHT MOTOR
272	RPP	1604.2983	1752.7085	-36.9368	-10.2667	1810.7985	1959.2088	FLHT MOTOR
273	RCC	1678.5021	-212.8071	1885.0024	0.0000	-147.9556	0.0000	WARHEAD

SOL								
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
274	ELL1	1678.5021	-360.7627	1885.0024	0.0000	-98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.000	0.0000	0.0000	0.0000	NOSE - EXT
275	ELLL	1678.5021	-360.7627	1885.0024	0.0000	-95.8854	0.0000	WARHE AD
		60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
276	RCC	1678.5021	783.0013	1885.0024	0.0000	-1285.7505	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277	RCC	1678.5021	781.3757	1885.0024	0.0000	-1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
278	RCC	1964.5047	241.6007	2018.0049	0.0000	-419.1017	0.0000	SIGHT
		64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	
279	RCC	1837.5042	241.6007	2018.0049	0.0000	-419.1017	0.0000	
		50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	
280	RPP	1786.7040	2055.9451	89.2001	241.6007	1954.5047	2094.2052	
281	RAW	1786.7040	216.2006	1953.1534	177.8007	0.0000	0.0000	
		0.0000	0.0000	-101.6004	0.0000	-152.4006	0.0000	
282	RCC	1678.5021	134.9990	1885.0024	0.0000	-640.0012	0.0000	LAUNCHER
		84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	OD
283	RCC	1678.5021	134.9990	1885.0024	0.0000	-640.0012	0.0000	LAUNCHER
		81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	ID
284	TRC	1678.5021	-504.9997	1885.0024	0.0000	-100.0002	0.0000	LAUNCHER
		84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	
285	TRC	1678.5021	-504.9997	1885.0024	0.0000	-100.0002		LAUNCHER
		81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	
286	RCC	1678.5021	-604.9999	1885.0024	0.0000	-400.0008		LAUNCHER
		77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	
287	RCC	1678.5021	-604.9999	1885.0024	0.0000	-400.0008		LAUNCHER
		74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
288		1608.5020	1748.5022	-364.9994	134.9990	1710.0033	1740.0034	
289	REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000		BODY ARMOR
		0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	

S OL	ID					•		
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
290	REC	2371.4753	548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
		0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291	RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
		54.0006	0.0000	0.0000	0.0000	0.0000	0.000	LENS HOS
292	RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293		1741.0041	1778.0045	-757.0017	-686.0008	514.9997	643.0010	N S
294	RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N 2 EAE
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295		1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296	ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
		1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
		1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
		1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297	RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099		MSSLE S-IN
		74.2064	0.000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
298	RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
		72.9364	0.0000	0.0000	0.0000	0.0000		INTERIOR
299	TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
300	TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
		72.9338	62.2277	0.0000	0.0000	0.0000		INTERIOR
301	RCC	1200.0023	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
302	RCC	1200.0023	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
303	SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000		FLHT MOTOR
304		1125.7959	1274.2087	43.2665	69.9366	1293.7973		FLHT MOTOR
305	RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556		WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306	ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD

	S D L N U M	ID TYPE			SOLID PAR	AMETERS			REMARKS
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	307	ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHE AD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
	308	RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	309	RCC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
			76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	310	RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	311	RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	312	TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
	313	TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN
1			72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
•	314	RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227		LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	-
	315	RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969		FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
	316		1010.0020	-63.5434	1368.0037	93.4571	0.0000		FLHT MOTOR
	317		935.7956	1084.2083	-6.7336	19.9365	1293.7973		FLHT MOTOR
	318	RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	319	ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000		NOSE - EXT
	320	ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854		WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000		NOSE -INT
	321	RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505		MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000		EXTERIOR
	322	RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993		MSSLE CASE
			76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR

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TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

		ID TYPE			SOLID PARA	METERS			REMARKS
	323	RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0 - 0000	MSSLE S-IN
	363		74.2064	0.0000	0.0000	0.0000	0.0000		EXTERIOR
	324	RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099		MSSLE SKIN
	<b>J</b>		72.9364	0.0000	0.0000	0.0000	0.0000		INTERIOR
	325	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404		MSSLE SKIN
		• •	74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
	326	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404		MSSLE SKIN
		• • • •	72.9338	62.2277	0.0000	0.0000	0.0000		INTERIOR
	327	RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227		LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	
	328	RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969		FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
_	329	SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000		FLHT MOTOR
7	330	RPP	745.7952	894.2080	43.2665	69 <b>.936</b> 6	1293.7973	1442.2101	FLHT MOTOR
	331	RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	332	ELLI	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	333	ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
	334	RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	335	RCC	820.0016	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
			76.5178	0.0000	0.0000	0.0000	0.0000	0.000	INTERIOR
	336	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000		EXTERIOR
	337	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099		MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000		INTERIOR
	338	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
	339	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN

SOL								
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
		72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
340	RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
341	RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342	SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343	RPP	555.7948	704.2076	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
344	RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345	ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346	ELL1	630.0012	343.7624	1366.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
347	RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348	RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349	TRC	2052.0030	343.0004	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350	TRC	1877.0039	343.0004	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351	TRC	2052.0030	343.0004	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
352	TRC	1877.0039	343.0004	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
353	SPH	2052.0030	343.0004	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354	SPH	1877.0039	343.0004	1316.0036	69.4998	0.0000	0.0000	HIP JNT RT
355	REC	1964.5047	343.0004	1238.0034	0.0000	0.0000	160.0003	HIPS
		157.0006	0.0000	0.0000	0.0000	-102.9999	0.0000	
356	REC	1964.5047	343.0004	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
		144.9990	0.0000	0.0000	0.0000	-107.0005	0.0000	

S OL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
357	REC	1964.5047	343.0004	1658.0042	0.0000	0.0000	260.0005	TORSO UP
		144.9990	0.0000	0.0000	0.0000	-107.0005	0.0000	
358	RCC	2157.0044	343.0004	1918.0047	13.9904	0.0000	-363.7320	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
359	RCC	1772.0024	343.0004	1918.0047	-13.9904	0.0000	-363.7320	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360	TRC	2170.9948	343.0004	1554.2728	10.5309	0.0000	-273.7978	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
361	TRC	1758.0146	343.0004	1554.2728	10.5309	0.0000	-273.7978	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362	RCC	1964.5047	343.0004	1918.0047	0.0000	0.0000	71.9991	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363	ELL1	1964.5047	343.0004	2038.0050	0.0000	-100.0002	0.0000	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364	SPH	2052.0030	343.0004	816.0011	66.0149	0.0000	0.0000	KNEE LT
365	SPH	1877.0039	343.0004	816.0011	66.0149	0.0000	0.0000	KNEE RT
366	SPH	2170.9948	343.0004	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
367	SPH	1758.0146	343.0004	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
368	SPH	2052.0030	343.0004	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369	SPH	1877.0039	343.0004	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370	REC	2181.0253	343.0004	1280.4825	0.0000	0.0000	-104.9989	HAND LEFT
		0.0000	-50.0001	0.0000	44.9988	0.0000	0.0000	
371	REC	2181.0253	343.0004	1280.4825	0.0000	0.0000	-104.9989	HAND RIGHT
		0.0000	-50.0001	0.0000	44.9988	0.0000	0.0000	
372	SPH	2154.5051	343.0004	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373	SPH	1774.5043	343.0004	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374	RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
		60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
375	RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
		4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376	RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

	S OL NUM	ID TYPE			SOLID PAR	AMETERS			REMARKS
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	377	RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	378	RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	379	RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
			4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
	380	RCC	1401.5039	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	381	RCC	1401.5039	739.4401	1885.0024	0.0000	-638.0099	0.0000	<b>MSSLE SKIN</b>
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	382	TRC	1401.5039	-10.2667	1885.0024	0.0000	-202.5404		W22FE 2KIN
			74.2064	63.5003	0.0000	0.0000	0.0000		EXTERIOR
	383	TRC	1401.5039	-10.2667	1885.0024	0.0000	-202.5404		<b>M22FE 2KIN</b>
			72.9338	62.2277	0.0000	0.0000	0.0000		INTERIOR
40	384	RCC	1401.5039	739.4401	1885.0024	0.0000	-434.7227	0.0000	
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	
	385	RCC	1401.5039	101.4302	1885.0024	0.0000	-111.6969	0.0000	· ·
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
	386		1401.5039	46.5431	1885.0024	93.4571	0.0000		FLHT MOTOR
	387		1327.2975	1475.7077	-36.9368	-10.2667	1810.7985		FLHT MOTOR
	388	RCC	1401.5039	-212.8071	1885.0024	0.0000	-147.9556		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	389	ELLI	1401.5039	-360.7627	1885.0024	0.0000	-98.4254		WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000		NOSE - EXT
	390	ELL1	1401.5039	-360.7627	1885.0024	0.0000	-95.8854		WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000		NOSE -INT
	391	RCC	1401.5039	783.0013	1885.0024		-1285.7505		MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000		EXTERIOR
	392	RCC	1401.5039	781.3757	1885.0024		-1282.4993		MSSLE CASE
			76.5178	0.000	0.0000	0.0000	0.0000	0.0000	INTERIOR

SOL	. I D							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
393	RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000	TRIPOD
		74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394	RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395	RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396	RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397	REC	1964.5047	343.0004	1398.0037	0.0000	0.0000	520.0010	ARMOR VEST
		157.6991	0.0000	0.0000	0.0000	-119.7005	0.0000	
398	ARBB	3100.0060	-920.0018	1101.0029	3100.0060	920.0018	1101.0029	WINDSHIELD
		2698.0062	760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR
		3100.0060	-920.0018	1133.5023	3100.0060	920.0018	1133.5023	
		2698.0062	760.0015	1642.5025	2698.0062	-760.0015	1642.5025	
399	ARB8	2203.0040	-760.0015	2244.0049	2698.0062	-760.0015	1610.0031	FRONT TOP
		2698.0062	760.0015	1610.0031	2203.0040	760.0015	2244.0049	ARMOR
		2203.0040	-760.0015	2276.5043	2698.0062	-760.0015	1642.5025	
		2698.0062	760.0015	1642.5025	2203.0040	760.0015	2276.5043	
400	RPP	653.0010	2203.0040	-760.0015	760.0015	2244.0049	2264.0049	ROOF ARMOR
401	RPP	72.9999	92.9999	-760.0015	760.0015	1287.0027	1684.0038	REAR ARMOR
402	RPP	72.9999	653.0010	-760.0015	760.0015	1684.0038	2244.0049	ARMOR R TP
403	RCC	653.0010	-760.0015	1684.0038	0.0000	1520.0029	0.0000	ARMOR R TP
		580.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
404	RCC	653.0010	-760.0015	1684.0038	0.0000	1520.0029	0.0000	ARMOR R TP
		560.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
405	RCC	1698.0043	154.9990	1610.0031	0.0000	0.0000	-800.0015	PEDESTAL
		70.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

	REG NUM								REGID	N COMBI	NATION	DAT	A			REMARKS
	1	OR	1	OR	2	OR	3		0	0		0	0	c	0	SUMP
	2		4		-35		0		0	0		0	0	(	0	BLOCK
	3	OR	5	OR	6		-106		0	0		0	0	(	0	MANIFOLD
	4		7		0		0		0	0		0	0	C	0	CARB
	5		8		-14		0		0	0		0	0	0	0	DIL FILT
	6		9		0		0		0	0		0	0	C	0	PUMP H20
	7		10		0		0		0	0		O	0	C	0	AIR FILT
	8		11		0		0		0	0		0	0	C	0	PUMP GAS
	9		12		0		0		0	0		0	0	(	) 0	GAS FILT
	10		13		-106		0		0	0		0	0	(	0	RADIATOR
	11		16		-6		-17		-100	0		0	0	(	0	TRANS ADP
	12		18	OR	19	OR	20			DR 14	_	15	-100	C	0	TRANS
7	13	OR	22	OR	23	OR	24	OR	25	0		0	0	C	0	
40	14		26		0		0		0	0		0	0	(	0	
	15		27		0		0		0	0		0	0	C	0	
	16		28		-29		-26		0	0		0	0	(	0	
	17		30		0		0		0	0		0	0	(	0	
	18		31		0		0		0	0		0	0	(	0	
	19		32		0		0		0	0		0	0	C	0	
	20		33		0		0		0	0		0	0	(	0	
	21		34		0		0		0	0		0	0	C	0	
	22		35		0		0		0	0		0	0	C	0	
	23		36		0		0		0	0		0	0	C	0	
	24		37		0		0		0	0		0	0	C	_	
	25		38		0		0		0	0		0	0	C	0	
	26		39		0		0		0	0		0	0	C	_	
	27	OR	40	OR		OR	42		43	-99		0	0	C	0	
	28		44		0		0		0	0		0	0	C	_	
	29		45		0		0		0	0		0	0	C	· -	
	30		48		-49		0		0	0		0	0	(		TIRE
	31		49		-46		-47		-51	-52	_	53	-54	-55	0	WHEEL

	REG NUM					REGION	COMBINAT	TION DAT	<b>A</b>			REMARKS
	32		58	-59	0	0	0	0	0	0	o	TIRE
	33		59	-56	-5 <b>7</b>	-61	-62	-63	-64	-65	Õ	WHEEL
	34		68	-69	0	0	0	ő	Ö	ő	Õ	TIRE
	35		69	-66	-67	-71	-72	-73	-74	-75	Ö	WHEEL
	36		78	-79	Ö	0	0	0	Ö	Ō	Ö	TIRE
	37		79	-76	-77	-81	-82	-83	-84	-85	Ö	WHEEL
	38		86	87	-7	-10	-34	-5	0	0	Ö	AIR HOSE
	39		88	-112	-18	-19	-20	-21	-91	-92	-100	FLW
	40	OR		OR 90	-16 0			-16	-100	0	0	BULKHD
	41		93	-94	0	0	0	0	0	Ō	0	TRANS COVER
	42		95	-96	-27	-112	0	0	0	0	0	TRANS COVER
	43		97	0	0	0	0	0	0	0	0	TRANS COVER
	44		98	Ō	Ö	Ō	0	Ō	Ō	Ō	Ō	TRANS U JNT
_	45		99	0	0	0	0	0	0	0	0	TRANS U JNT
7	46		100	-101	0	0	0	0	0	0	0	REAR PROP
	47		102	Ō	0	0	0	0	0	0	0	U-JOINT
	48		103	0	0	0	0	0	0	0	0	U-JOINT
	49		104	0	0	0	0	0	0	0	0	REAR AXLE
	50		105	0	0	0	0	0	0	0	0	REAR AXLE
	51		106	107	0	0	0	0	0	0	0	H20 HOSE
	52		50	0	0	0	0	0	0	0	0	DISC BRAKE
	53		60	-39	0	0	0	0	0	0	0	DISC BRAKE
	54		70	0	0	0	0	0	0	0	0	DISC BRAKE
	55		80	-103	0	0	0	0	0	0	0	DISC BRAKE
	56		114	112	-113	0	0	0	0	0	0	TUNNEL
	57		108	0	0	0	0	0	0	0	0	SEAT
	58		109	0	0	0	0	0	0	0	0	SEAT
	59		110	0	0	0	0	0	0	0	0	
	60		111	0	0	0	0	0	0	0	0	SEAT
	61		115	-117	-130	-134	0	0	0	0	0	LOW LEG LT
	62		116	-118	-131	-135	0	0	0	0	0	LOW LEG RT

REG Num				REGION	COMBINATION	DATA			+	REMARKS
63	117	-130	-119	-121	0	0	0	0	0	UP LEG LT
64	118	-131	-120	-121	0	0	0	0	0	UP LEG RT
65	119	0	0	0	0	0	0	0	0	HIP JNT LT
66	120	0	0	0	0	0	0	0	0	HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0	HIPS
68	122	-123	0	0	0	0	0	0	0	TORSO LOW
69	123	0	0	0	0	0	0	0	0	TORSO UP
70	124	-132	-126	-138	0	0	0	0	0	ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0	ARM UP RT
72	126	-132	0	0	0	0	0	0	0	ARM LOW LT
73	127	-133	0	0	0	0	0	0	0	ARM LOW RT
74	128	-123	0	0	0	0	0	0	0	NECK
75	129	-128	0	0	0	0	0	0	0	HEAD
76	130	0	0	0	0	0	0	0	0	KNEE LT
77	131	0	0	0	0	0	0	0	0	KNEE RT
78	132	0	0	0	0	0	0	0	0	ELBOW LT
79	133	0	0	0	0	0	0	0	0	ELBOW RT
80	134	0	0	0	0	0	0	0	0	ANKLE LT
81	135	0	0	0	0	0	0	0	0	ANKLE RT
82	136	-126	0	0	0	0	0	0	0	HAND LEFT
83	137	-127	<del>-</del> 250	0	0	0	0	0	0	HAND RT
84	138	-123	0	0	0	C	0	0	0	SHLD JNT L
85	139	-123	0	0	0	0	0	0	0	SHLD JNT R
86 DR	166 O		168 DR	169	0	0	0	0	0	FUEL CELL
87	141		<del>-</del> 156	-160	0	0	0	0	0	FOM FEG FL
88	142		-157	-161	0	0	0	0	0	LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	0	UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0	UP LEG RT
91	145	0	0	0	0	0	0	0	0	HIP JNT LT
92	146	0	0	0	0	0	0	0	0	HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	0	HIPS

	REG NUM								REGIO	ЭN	COMBIN	ITAI	ON DA	ATA						REMARKS
	94		148		-149		0		0		0		0		0		0		0	TORSO LOW
	95		149		0		0		0		0		0		0		0		0	TORSO UP
	96		150		-158		-152		-164		0		0		0		0		0	ARM UP LT
	97		151		-159		-153		-165		0		0		0		0		0	ARM UP RT
	98		152		-158		0		0		0		0		0		0		0	ARM LOW LT
	99		153		-159		0		0		0		0		0		0		0	ARM LOW RT
	100		154		-149		0		0		0		0		0		0		0	NECK
	101		155		-154		0		0		0		0		0		0		0	HEAD
	102		156		0		0		0		0		0		0		0		0	KNEE LT
	103		157		0		0		0		0		0		0		0		0	KNEE RT
	104		158		0		0		0		0		0		0		0		0	ELBOW LT
_	105		159		0		0		0		0		0		0		0		0	ELBOW RT
145	106		160		0		0		0		0		0		0		0		0	ANKLE LT
-	107		161		0		0		0		0		0		0		0		0	ANKLE RT
	108		162		-152		0		0		0		0		0		0		0	HAND LEFT
	109		163		-153		0		0		0		0		0		0		0	HAND RIGHT
	110		164		-149		0		0		0		0		0		0		0	SHLD JNT L
	111		0		0		0		0		0		0		0		0		0	DUMMY
	112		165		-149		0		0		0		0		0		0		0	SHLD JNT R
	113	OR	170	OR	172	OR	174	OR	176	OR		OR	180	OR	243	OR	240		-170	FT TOP LF
	114		181		-218		0		0		0		0		0		0		0	F BUMBER
	115	OR	202	OR	184	OR	186	OR	188	08		UR	192	UR	198	UR	200	UK		LEFT SIDE
			-180		0		0		0	~ 5	0		0		0		0		0	0.7.0
	116	OR	203	OR	185		187	UR	189			UK	193	UK		UK	201	UK		RIGHT SIDE
			-179		0		0		0		0		0		0		0		0	200452 155
	117		194		-192		-88		-214		-92		0		0		0		0	ROCKER LFT
	118		195		-193		-88		-215		-92		0		0		0		0	ROCKER RGT
	119		196		-197		0		0		0		0		0		0		0	REAR BUMBER
	120		206		207		204	0.5	-202				-203		0		0		0	R SHT MET
	121				209		210	UK	211			UK	213		0		0		0	FLOOR SKID
	122	UR	214	OR	215	UK	217		-28	UH	216		-28		0		0		0	BULKHEAD

REG										
NUM				REGION	COMBINATI	ON DATA				REMARKS
123	219	-220	0	0	0	0	0	0	0	ENG DECK
124	221	223	0	0	0	0	0	Ö	Ö	ROLL BAR
125	222	224	0	0	0	0	0	Ō	0	ROLL BAR
126	226	-223	0	0	О	0	0	0	0	ROLL BAR
127	227	-224	0	0	0	0	0	0	0	ROLL BAR
128	398	-226	-227	-225	0	0	0	0	0	WINDSHIELD
129	399	0	0	0	0	0	0	0	0	ARMOR FT TP
130	400	0	0	0	0	0	0	0	0	ARMOR ROOF
131 OR	244 OR	171 C	R 173 (	OR 175 O	R 177 OR	179 OR	242 DR	241	-244	FT TOP RT
132	401	0	0	0	0	0	0	0	0	ARMOR REAR
133	402	403	-404	0	0	0	0	0	0	ROOF ARMOR
134	245	246	0	0	0	0	0	0	0	<b>HEADLIGHT</b>
135	247	248	0	0	0	0	0	0	0	HEADLIGHT
136	249	0	0	0	0	0	0	0	0	STEERING C
137	250	0	0	0	0	0	0	0	0	STEERING W
138	251	-235	-234	0	0	0	0	0	0	ENG TP DC
139	252	0	0	0	0	0	0	0	0	BATTERY
140	253	0	0	0	0	0	0	0	0	BATTERY
141	405	-251	-93	-16	0	0	0	0	0	PEDESTAL
142	256	0	0	0	0	0	0	0	0	GRC160 RADI
143	257	0	0	0	0	0	0	0	0	GUIDANCE
144 DR	262 OR	258	-259	-260	-261	0	0	0	0	TOW MOUNT
145 DR	265	-266 D	R 267	-268	-271	O	0	0	0	MISSILE SKN
146	269	0	0	0	0	0	0	0	0	LAUNCH MOTR
147 DR	270 DR	271	272	0	0	0	0	0	0	FLIGHT MOTR
148	274	-273	-275	0	0	0	0	0	0	WARHEAD NSE
149 DR	268	-272 O		0	0	0	0	0	0	WARHEAD
150	266	-269	0	0	0	0	0	0	0	MISCL - AFT
151	276	-277	0	0	0	0	0	0	0	MISSILE CAS
152 OR	278 OR	279 D		DR 281	0	0	0	0	0	SIGHT
153	282	-283	-288	0	0	0	0	0	0	LAUNCHER

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG																	
NUM								REGIO	אכ	COMBI	TAP	ION DA	TA				REMARKS
154		284		-285		0		0		0		0		0	0	0	LAUNCHER
155		286		-287		0		0		0		0		0	0	0	LAUNCHER
156		289		-148		-149		-154		-164		-165	-15	0	-151	0	BODY ARMOR
		-158		-159		-152		-153		0		0		0	0	0	
157		290		-122		-123		-128		-138		-139	-12	4	-125	0	BODY ARMOR
		-132		-133		-126		-127		0		0		0	0	0	
158	OR	291	OR	292	OR	293	OR	294	OR	295	OR	296		0	0	0	NIGHT SIGH
159	OR	297		-298	OR	299		-300		-303		0		0	0	0	MISSILE SKN
160		301		0		0		0		0		0		0	0	0	LAUNCH MOTR
161	OR	302	OR	303		304		0		9		0		0	0	0	FLIGHT MOTR
162		306		-305		-307		0		0		0		0	0	0	WARHEAD NSE
163	OR	300		-304	DR	305		0		0		0		0	0	0	WARHEAD
164		298		-301		0		0		0		0		0	0	0	MISCL - AFT
165		308		-309		0		0		0		0		0	0	0	MISSILE CAS
166	OR	310		-311	OR	312		-313		-316		0		0	0	0	MISSILE SKN
167		314		0		0		0		0		0		0	0	0	LAUNCH MOTR
168	OR	315	OR	316		317		0		0		0		0	0	0	FLIGHT MOTR
169		319		-318		-320		0		0		0		0	0	0	WARHEAD NSE
170	OR	313		-317	OR	318		0		0		0		0	0	0	WARHEAD
171		311		-314		0		0		0		0		0	0	0	MISCL - AFT
172		321		-322		0		0		0		0		0	0	0	MISSILE CAS
173	OR	323		-324	OR	325		-326		-329		0		0	0	0	MISSILE SKN
174		327		0		0		0		0		0		0	0	0	LAUNCH MOTR
175	OR	328	OR	329		330		0		0		0		0	0	0	FLIGHT MOTR
176		332		-331		-333		0		0		0		0	0	0	WARHEAD NSE
177	OR	326		-330	DR	331		0		0		0		0	0	0	WARHEAD
178		324		-327		0		0		0		0		0	0	0	MISCL - AFT
179		334		-335		0		0		0		0		0	0	0	MISSILE CAS
180	OR	336		-337	OR	338		-339		-342		0		0	0	0	MISSILE SKN
181		340		0		0		0		0		0		0	0	0	LAUNCH MOTR
182	OR	341	ΩR	342		343		0		0		0		0	0	0	FLIGHT MOTR

REG Num				REGION	COMBINA	TION DATA				REMARKS
183	345	-344	-346	0	0	0	0	0	0	WARHEAD NSE
184 DR	339	-343 0	R 344	0	0	0	0	0	0	WARHEAD
185	337	-340	0	0	0	0	0	0	0	MISCL - AFT
186	347	-348	0	0	0	0	0	0	0	MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	LOW LEG RT
189	351	-364	-353	-355	-109	0	0	0	0	UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0	UP LEG RT
191	353	0	0	0	0	0	0	0	0	HIP JNT LT
192	354	0	0	0	0	0	0	0	0	HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	HIPS
194	356	-357	0	0	0	0	0	0	0	TORSO LOW
195	357	0	0	0	0	0	0	0	0	TORSO UP
196	358	-366	-360	-372	0	0	0	0	0	ARM UP LT
° 197	359	-367	-361	-373	-276	0	0	0	0	ARM UP RT
198	360	-366	0	0	0	0	0	0	0	ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	ARM LOW RT
200	362	-357	0	0	0	0	0	0	0	NECK
201	363	-362	0	0	0	0	0	0	0	HEAD
202	364	-93	0	0	0	0	0	0	0	KNEE LT
203	365	0	0	0	0	0	0	0	0	KNEE RT
204	366	0	0	0	0	0	0	0	0	ELBOW LT
205	367	0	0	0	0	0	0	0	0	ELBOW RT
206	368	0	0	0	0	0	0	0	0	ANKLE LT
207	369	0	0	0	0	0	0	0	0	ANKLE RT
208	370	-360	0	0	0	0	0	0	0	HAND LT
209	371	-361	0	0	0	0	0	0	0	HAND RT
210	372	-357	0	0	0	0	0	0	0	SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0	SHLD JNT
212	374	0	0	0	0	0	0	0	0	STARTER
213 OR	375	JR 376	0	0	0	0	0	0	0	CABLE

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG														
NUM								REGION	COMBINATION	DATA	•			REMARKS
214	OR	377	OR	378	OR	379		0	0	0	0	0	0	GAS LN
215	OR	380		-381	OR	382		-383	-386	0	0	0	0	MISSILE SKN
216		384		0		0		0	0	0	0	0	0	LAUNCH MOT
217	OR	385	OR	386		387		0	0	0	0	0	0	FLIGHT MOT
218		389		-388		-390		0	0	0	0	0	0	WARHEAD NOS
219	OR	383		-387	OR	388		0	0	0	0	0	0	WARHEAD
220		381		-384		0		0	0	0	0	0	0	MISCL AFT
221		391		-392		0		0	0	0	0	0	0	MISSILE CAS
222	OR	393	OR	394	OR	395	OR	396	0	0	0	0	0	TRIPOD
223		397		-356		-357		-358	-359 -3	6 C	-361	-362	0	
		-366		-367		-372		-373	0	0	0	0	0	

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311

R	EGION Num	ITEM Code	SPACE	DESCRIPTION	MATERIAL Code	LOS Percent
	1	9701	0	OIL SUMP	1	2
	2	9702	0	ENGINE BLOCK	4	55
	3	9703	0	INTAKE MANIFOLD	4	20
	4	9704	0	CARBURATOR	5	50
	5	9705	0	OIL FILTER	1	2
	6	9706	0	WATER PUMP	4	30
	7	9707	0	AIR FILTER	1	2
	8	9708	0	FUEL PUMP	5	30
	9	9709	0	FUEL FILTER	5	5
	10	9710	0	ENGINE RADIATOR	7	15
	11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
	12	9712	0	AUTOMATIC TRANSMISSION	5	40
	13	9713	0	FRONT DIFFERENTIAL	1	50
	14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
150	15	9715	0	FNT TRANSMISSION U-JOINT	1	55
0	16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
	17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
	18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
	19	9719	0	LEFT ROCKER ARM COVER	1	2
	20	9720	0	RIGHT ROCKER ARM COVER	1	2
	21	9721	0	DISTRIBUTOR	5	30
	22	9722	0	IGNITION COIL	1	5
	23	9723	0	LEFT FRONT AXLE	1	100
	24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
	25	9725	0	RIGHT FRONT AXLE	1	100
	26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
	27	9727	0	REAR DIFFERENTIAL	1	<b>5</b> 0
	28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
	29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
	30	8737	0	TIRE	18	25
	31	9737	0	WHEEL	1	50

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

R	EGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODE	CODE	DESCRIP	TION	CODE	PERCENT
	32	8737	0	TIRE		18	25
	33	9737	0	WHEEL		1	50
	34	8737	0	TIRE		18	25
	35	9737	0	WHEEL		1	50
	36	8737	0	TIRE		18	25
	37	9737	0	WHEEL		1	50
	38	8704	0	AIR CLEANER HOSE		18	5
	39	9112	0	CHASSIS BODY FLOOR		1	49
	40	9113	0	ENGINE COMPARTMENT B	ULKHEAD	1	100
	41	9114	0	TRANSMISSION COVER		1	49
	42	9114	0	TRANSMISSION COVER		1	49
	43	9114	0	TRANSMISSION COVER T	OP .	1	49
	44	9730	0	TRANSMISSION REAR U-	JOINT	1	55
_	45	9731	0	REAR DIFFERENTIAL U-	JOINT	1	55
151	46	9736	0	REAR PROP		1	15
	47	9732	0	REAR WHEEL U-JOINT		1	55
	48	9733	0	REAR WHEEL U-JOINT		1	55
	49	9734	0	REAR AXLE		1	100
	50	9735	0	REAR AXLE		1	100
	51	9651	0	RADIATOR WATER HOSE		18	5
	52	9402	0	DISC BRAKE ROTOR		1	100
	53	9403	0	DISC BRAKE ROTOR		1	100
	54	9404	0	DISC BRAKE ROTOR		1	100
	55	9405	0	DISC BRAKE ROTOR		1	100
	56	9756	0	DRIVE TRAIN TUNNEL		1	49
	57	9752	0	SEAT		18	100
	58	9752	0	SEAT		18	100
	59	9752	0	SEAT		18	100
	60	9752	0	SEAT		18	100
	61	9810	0	LOWER LEG LEFT	DRIVER	28	100
	62	9811	0	LOWER LEG RIGHT	DRIVER	28	100

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

RE	GION	ITEM	SPACE			MATERIAL	LOS
	NUM	CODE	CCDE	DESCRIPTIO	IN	CODE	PERCENT
	63	9812	0	UPPER LEG LEFT	DRIVER	28	100
	64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
	65	9814	0	HIP JOINT LEFT	DRIVER	28	100
	66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
	67	9816	0	HIPS	DRIVER	28	100
	68	9817	0	TORSO LOWER	DRIVER	28	100
	69	9818	0	TORSO CHEST	DRIVER	28	100
	70	9819	0	UPPER ARM LEFT	DRIVER	28	100
	71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
	72	9821	0	LOWER ARM LEFT	DRIVER	28	100
	73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
	74	9823	0	NECK	DRIVER	28	100
	75	9824	0	HEAD	DRIVER	28	100
	76	9825	0	KNEE LEFT	DRIVER	28	100
152	77	9826	0	KNEE RIGHT	DRIVER	28	100
52	78	9827	0	ELBOW LEFT	DRIVER	28	100
	79	9828	0	ELBOW RIGHT	DRIVER	28	100
	80	9829	0	ANKLE LEFT	DRIVER	28	100
	81	9830	0	ANKLE RIGHT	DRIVER	28	100
	82	9831	0	HAND LEFT	DRIVER	28	100
	83	9832	0	HAND RIGHT	DRIVER	28	100
	84	9833	0	SHOULDER JOINT LEFT	DRIVER	28	100
	85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28	100
	86	9760	0	FUEL CELL		13	5
	87	8910	0	LOWER LEG LEFT	LOADER	28	100
	88	8911	0	LOWER LEG RIGHT	LOADER	28	100
	89	8912	0	UPPER LEG LEFT	LOADER	28	100
	90	8913	0	UPPER LEG RIGHT	LOADER	28	100
	91	8914	0	HIP JOINT LEFT	LOADER	28	100
	92	8915	0	HIP JOINT RIGHT	LOADER	28	100
	93	8916	0	HIPS	LOADER	28	100

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

R	REGION NUM	I TEM CODE	SPACE	DESCRIPTIO	1N	MATERIAL CODE	LOS Percent
	,,,,,,	4552	CODE	51.50KI, 110	<b>2</b> 11	CODE	TERCENT
	94	8917	0	TORSO LOWER	LOADER	28	100
	95	8918	0	TORSO CHEST	LOADER	28	100
	96	8919	0	UPPER ARM LEFT	LOADER	28	100
	97	8920	0	UPPER ARM RIGHT	LOADER	28	100
	98	8921	0	LOWER ARM LEFT	LOADER	28	100
	99	8922	0	LOWER ARM RIGHT	LOADER	28	100
	100	8923	0	NECK	LOADER	28	100
	101	8924	0	HEAD	LOADER	28	100
	102	8925	0	KNEE LEFT	LOADER	28	100
	103	8926	0	KNEE RIGHT	LOADER	28	100
	104	8927	0	ELBOW LEFT	LOADER	28	100
	105	8928	0	ELBOW RIGHT	LOADER	28	100
	106	8929	0	ANKLE LEFT	LOADER	28	100
53	107	8930	0	ANKLE RIGHT	LOADER	28	100
•	108	8931	0	HAND LEFT	LOADER	28	100
	109	8932	0	HAND RIGHT	LOADER	28	100
	110	8933	0	SHOULDER JOINT LEFT	LOADER	28	100
	111	0	0	DUMMY		0	0
	112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
	113	9101	0	XR 311 FRONT SHEET META	AL TOP	1	49
	114	9102	0	FRONT BUMBER		1	100
	115	9103	0	SHEET METAL LEFT SIDE		1	49
	116	9104	0	SHEET METAL RIGHT SIDE	E	1	49
	117	9105	0	LEFT ROCKER PANEL		1	49
	118	9105	0	RIGHT ROCKER PANEL		1	49
	119	9102	0	REAR BUMBER		1	100
	120	9106	0	REAR SHEET METAL		1	49
	121	9109	0	FLOOR SKID		1	100
	122	9107	0	FORWARD BULKHEAD		1	100
	123	9108	0	ENGINE DECK SHEET METAL	L	1	49
	124	9149	0	ROLL BAR CORNER		1	17

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

F	REGION NUM	ITEM CODE	SPACE CDDE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
	125	9150	0	ROLL BAR CORNER		1	17
	126	9151	0	ROLL BAR SIDE		ī	17
	127	9152	0	ROLL BAR SIDE		ī	17
	128	8227	0	WINDSHIELD ARMOR		12	79
	129	8228	0	FRONT TOP ARMOR		12	79
	130	8230	0	ROOF ARMOR		12	79
	131	9156	0	FRONT HOOD		1	49
	132	8232	0	REAR ARMOR		12	79
	133	8233	0	ROOF REAR TOP ARMO		12	79
	134	9761	0	HEADLIGHT		1	2
	135	9761	0	HEADLIGHT		1	2
	136	9762	0	STEERING COLUMN		1	15
	137	8762	0	STEERING WHEEL		18	100
	138	9115	0	FRONT TOP ENGINE DECK		1	49
54	139	9763	0	BATTERY		6	38
	140	9763	0	BATTERY		8	38
	141	9641	0	PEDESTAL MOUNT		1	5 <b>5</b>
	142	9642	0	RADIO GRC 160		1	24
	143	9643	0	TOW GUIDANCE SET		5	21
	144	9406	0	TOW TRAVERSE MOUNT		5 5	60
	145	7300	0	MISSILE SKIN	FIRE	5	100
	146	7301	0	LAUNCH MOTOR		2	32
	147	7302	0	FLIGHT MOTOR SECTION		2	23
	148	7303	0	WARHEAD NOSE		5	100
	149	7304	0	WARHEAD SECTION		5	55
	150	7305	0	MISCELLANEOUS COMPONENTS		5	23
	151	7306	0	MISSILE CASE		16	99
	152	9500	0	DAY SIGHT		5	40
	153	<b>951</b> 0	0	TOW LAUNCHER TUBE		5	99
	154	9511	0	TOW LAUNCHER TUBE		5	99
	155	9512	0	TOW LAUNCHER TUBE		5	99

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

R	REGION	ITEM	SPACE		MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTION	CODE	PERCENT
	156	9801	0	CREW BODY ARMOR	12	99
	157	9801	0	CREW BODY ARMOR	12	99
	158	9802	0	NIGHT SIGHT (STOWED)	5	80
	159	9300	0	MISSILE SKIN	5	100
	160	9301	0	LAUNCH MOTOR	2	32
	161	9302	0	FLIGHT MOTOR SECTION	2	23
	162	9303	0	WARHEAD NOSE	5	100
	163	9304	0	WARHEAD SECTION	5	55
	164	9305	0	MISCELLANEOUS COMPONENTS	5	23
	165	9306	0	MISSILE CASE	16	99
	166	9300	0	MISSILE SKIN	5	100
	167	9301	0	LAUNCH MOTOR	2	32
	168	9302	0	FLIGHT MOTOR SECTION	2	23
155	169	9303	0	WARHEAD NOSE	5	100
0,	170	9304	0	WARHEAD SECTION	5	55
	171	9305	0	MISCELLANEOUS COMPONENTS	5	23
	172	9306	0	MISSILE CASE	16	99
	173	9300	0	MISSILE SKIN	5	100
	174	9301	0	LAUNCH MOTOR	2	32
	175	9302	0	FLIGHT MOTOR SECTION	2	23
	176	9303	0	WARHEAD NOSE	5	100
	177	9304	0	WARHEAD SECTION	5	55
	178	9305	0	MISCELLANEOUS COMPONENTS	5	23
	179	9306	0	MISSILE CASE	16	99
	180	9300	0	MISSILE SKIN	5	100
	181	9301	0	LAUNCH MOTOR	2	32
	182	9302	0	FLIGHT MOTOR SECTION	2	23
	183	9303	0	WARHEAD NOSE	5	100
	184	9304	0	WARHEAD SECTION	5	55
	185	9305	0	MISCELLANEOUS COMPONENTS	5	23
	186	9306	0	MISSILE CASE	16	99

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

	REGION	ITEM	SPACE	05550+0+4	7.N	MATERIAL	LOS
	NUM	CODE	CODE	DESCRIPTION	JN	CODE	PERCENT
	187	8810	0	LOWER LEG LEFT	GUNNER	28	100
	188	8811	0	LOWER LEG RIGHT	GUNNER	28	100
	189	8812	C	UPPER LEG LEFT	GUNNER	28	100
	190	8813	0	UPPER LEG RIGHT	GUNNER	28	100
	191	8814	0	HIP JOINT LEFT	GUNNER	28	100
	192	8815	0	HIP JOINT RIGHT	GUNNER	28	100
	193	8816	0	HIPS	GUNNER	28	100
	194	8817	0	TORSO LOWER	GUNNER	28	100
	195	B818	0	TORSO CHEST	GUNNER	28	100
	196	8819	0	UPPER ARM LEFT	GUNNER	28	100
	197	8820	0	UPPER ARM RIGHT	GUNNER	28	100
	19B	8821	0	LOWER ARM LEFT	GUNNER	28	100
	199	8822	0	LOWER ARM RIGHT	GUNNER	28	100
156	200	8823	0	NECK	GUNNER	28	100
9.	201	B824	0	HEAD	GUNNER	28	100
	202	8825	0	KNEE LEFT	GUNNER	28	100
	203	B826	0	KNEE RIGHT	GUNNER	28	100
	204	8827	0	ELBOW LEFT	GUNNER	28	100
	205	8828	0	ELBOW RIGHT	GUNNER	28	100
	206	8829	0	ANKLE LEFT	GUNNER	28	100
	207	8830	0	ANKLE RIGHT	GUNNER	28	100
	208	8831	0	HAND LEFT	GUNNER	28	<b>10</b> 0
	209	8832	0	HAND RIGHT	GUNNER	28	100
	210	8833	0	SHOULDER JOINT LEFT	GUNNER	28	100
	211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28	100
	212	9738	0	STARTER MOTOR		1	45
	213	9739	0	STARTER CABLE		7	99
	214	9740	0	GAS LINES		1	20
	215	8300	0	MISSILE SKIN	(READY)	5	100
	216	8301	0	LAUNCH MOTOR	(READY)	2 2	32
	217	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	I TEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS Percent
218	8303	0	WARHEAD NOSE	(READY)	5	100
219	8304	0	WARHEAD SECTION	(READY)	5	55
220	8305	0	MISCELLANEOUS COMPONENTS	(READY)	5	23
221	8306	0	MISSILE CASE		16	99
222	8307	0	TOW TRIPOD		5	60
223	9801	0	BODY ARMOR		12	99

## APPENDIX D OPTION 3 XR311-TOW DESCRIPTION LISTING

TABLE D-1. SOLID DATA FOR EPTION 3 XR311

	LID TYPE			SOLID PAR	AMETERS			REMARKS
11011				JOE 10 TAK	Anticks			KEMPKKS
1	ARBS	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
		983.0017	-176.6003	597.0014	983.0017	-30.0001	574.9998	
		1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
		1271.0032	-170-0003	597.0014	1271.0032	-30.6001	574.9998	
2	AKBB	983.0017	-30.6001	ン74.9998	983.0017	-170.0003	597.0014	
		983.0017	-74.5989	651.0020	983.0017	145.9998	574.9998	
		1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
		1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
3	AKB8	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
		983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
		1271.0032	145.9998	574.9998	1271.0032	-74.9989	651.0020	
161		1271.0032	-74.9969	714.0019	1271.0032	145.9998	714.0019	
L 4	ARS	4	9	0				
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.3012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	0.000	0.0000	0.0000	
		831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
		831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
		831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
		331.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
		831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
		1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
		1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
		1316.0020	-215.9999	991.002 <b>7</b>	1316.0020	-105.9997	714.0019	
		1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	31.0006	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

	SOL NUM	ID TYPE			SCLIU PAR	AMETERS			REMARKS
			1316.0020	31.0008	906.0012	1316.C020	31.0008	906.0012	
			1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
	5	ARB8	831.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
			831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
			1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
			1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
	6	AKBO	831.6024	34.0006	991.0027	831.0024	-54.9988	991.0027	
			831.0024	-105.9997	1041.0028	831.C024	34.0006	1094.0026	
			1271.0032	34.0006	991.0027	1271.6032	-54.9988	991.0027	
			1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
	7	RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
			54.998€	0.0000	0.0000	0.0006	0.0000	0.0000	
	8	RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
)			58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
	9	RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
			81.9 <b>9</b> 91	0.000	0.0000	0.0000	0.0000	0.0000	
	10	RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
			118.0012	0.000	0.0000	0.0000	0.0000	0.0000	
	11	RCC	767.0017	226.9957	799 <b>.0</b> 008	0.0000	0.0000	30.0001	
			44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
	12	RCC	1334.0018	410.0008	1116.0017	-22.5998	0.0000	-102.9999	
			42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
	13	ARBB	373.0005	338.9999	1250.0024	373.C005	-334.0012	1250.0024	
			278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
			488.0020	338.9999	504.9997	488.C020	-334.0012	504.9997	
			394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
	14	TEC	1316.0020	45.9993	714.0019	280.0005	0.0000	0.0000	TRAN OD
			0.0000	C.COOO	264.9992	0.0000	-200.0004	0.0000	
			2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

714.0019

258.9997

C.0000

0.0000 -194.0009

0.0000

0.0000

TRAN ID

280.0005

162

15 TEC

1316.0020

0.0000

40.9993

0.0000

	LID			SOLID PAR	AM&TERS			REMARKS
11011	,,,,			SULTO TAK	MI ETENS			TENANT'S
		2.0000	0.0000	0.0000	0.000	0.0000	0.0000	
16	TEC	1596.0026	48.9993	714.0019	161.9993	6.0000	0.0000	
		0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
		1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
17	TEC	1590.0026	48.5993	714.0019	161.9993	0.0000	0.0000	
		0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
		1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
18	RCC	1758.0044	48.9493	714.0019	364.9994	0.0000	0.0000	TRANS
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
19	RCC	1927.0040	148.0013	504.9997	254.9992	0.0000	0.0000	
		47.0003	0.0000	0.0000	0.0006	0.0000	0.0000	
20	RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
		125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
21	BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
		0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
22	RCC	3898.0086	0.000	434.0013	-100.0002	0.0000	0.0000	DIFF
		118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
23	SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
24	RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
		47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
25	TRC	3798.0084	0.0000	434.0013	-140.C0G3	0.0000	0.0000	DIFF
		118.C012	47.0003	0.0000	0.0000	0.0000	0.0000	
26	SPH	3568.0079	6.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
2 <b>7</b>	SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
28	RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
		4C.CO01	C.C000	0.0000	0.000C	0.0000	0.0000	
29	KCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
		34.0006	0.0000	0.000C	0.0000	0.0000	0.0000	
30	SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
31	SPH	3856.0070	-188.6014	434.0013	40.0001	0.0000	0.0000	U-J01NT
32	BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

SOL	IC							
	TYPE			SGLID PAR	AMETERS			REMARKS
		0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
33	BOX	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997	R COVER
		0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
34	RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
		44.0006	C.CO00	0.0000	C.COCO	0.0000	0.0000	
35	RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
		30.0001	C.0000	0.0000	0.0000	0.0000	0.0000	
36	RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	LAXLE
		14.9983	0.0000	C.000C	0.0000	0.0000	0.0000	
37	SPH	3833.0072	674.0018	416.0003	4C.0001	0.0000	0.0000	U-JOINT
38	RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
		14.9988	C.CC00	0.0000	0.0000	0.0000	0.0000	
	SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
40	RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000	R DIFF
		148.0013	0.0000	0.0000	C.0000	0.0000	0.0000	
41	SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
42	TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
		118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
43	RCC	936.0013	C.OCCC	458.0019	50.0001	0.0000	0.0000	
		47.0003	0.0000	0.0000	0.000	0.0000	0.0000	
44	SPH	746.0009	186.0014	458.CU19	40.0001	0.0000	0.0000	
45	SPH	746.0009	-188.C014	458.0019	40.0001	0.0000	0.0000	
46	TRC	3833.0072	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
		218.0014	136.6013	0.0000	0.0000	0.0000	0.0000	
47	TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992		WHEEL HALF
		218.0014	138.0013	0.000	C.0000	0.0000	0.0000	
48	TOR	3833.0072	604.G021	416.0003	0.0000	1.0008	0.0000	TIRE
		293.0003	154.9996	0.0000	0.0000	0.0000	0.0000	
49	RCC	3833.0072	666.C008	416.0003	0.0000	276.0000	0.0000	
		218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
50	RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

16,

sot	ID								
NUM	TYPE			SOLID PARAM	METERS			REMARK	3
		120.3002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
51	RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
52	RCC	3806.7409	784.0020	335.1544	0.0000	40.0001	0.0000	WHEEL	HOLF
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
53	RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
54	RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
55	RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	6.0000	0.0000	0.0000	0.0000	0.0000		
56	TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		21c.0014	136.0013	0.0000	0.0000	0.0000	0.0000		
57	TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		216.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
58	TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
59	RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	0.0000	0.0000	0.0000	0.0000	0.0000		
60	RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC	
		120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
61	RCC	3746.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.000	0.0000	0.0000	0.0000	0.0000		
62	RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.6000	0.0000		
63	RCC	3901.7729	-324.0021	366.0353	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
64	RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.000	0.0000	0.0000	0.0000	0.0000		
65	RCC	3806.7409	-824.0021	496.8412	0.0000	40.G001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		

	ID TYPE			SULID PARAI	VETERS			REMARK	<i>,</i> c
NOIT	1116			JULIU FARAI	July Canada Cana				
66	TKC	767.0017	666.0008	416.0003	0.0000	131.9992	<b>U.</b> 0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.000	0.0000	0.0000		
67	TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	138.0013	0.0000	0.0000	0.0000	0.0000		
68	TUR	767.0017	804.0021	416.0003	0.0000	1.0008	C.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
69	RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000		
		218.0014	<b>6.6</b> 066	0.0000	0.000	0.0000	0.0000		
70	RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC	
		120.0002	0.C000	0.0000	0.0000	0.0000	0.0000	ROTOR	
71	RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0C01	0.0000	0.0000	0.000	0.0000	0.0000		
72	RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
73	RCC	535.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
74	RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000		
75	RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL	HOLE
		30.0001	0.000	0.0000	0.000	0.0000	0.0000		
76	TKC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL	HALF
		218.6014	136.0013	C.0000	0.0000	0.0000	0.0000		
77	TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL	HALF
		218.0014	136.0013	0.0C00	0.0000	0.0000	0.0000		
78	TOR	767.0017	-604.0021	416.0003	0.0000	1.0008	0.0000	TIRE	
		293.0003	154.9990	0.0000	0.0000	0.0000	0.0000		
79	RCC	767.0017	-942.0008	416.0003	C.0000	276.0000	0.0000		
		218.0014	C.000C	C.0000	0.0000	0.0000	0.0000		
80	RCC	767.0017	-764.0020	416.0003	C.00CO	11.9990	0.0000	DISC	
		120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR	
81	RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL	HOLE

	ID TYPE			SCLID PAR	AMETERS			REMARKS
				30220 7 7 8	Anereks			KEHEKKS
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82	KCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0006	0.0000	0.0000	0.0000	0.0000	
83	RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
٤4	RCC	835.7674	-824.6021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85	RCC	740.7355	-824.0C21	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
		30.0001	0.0000	C.0000	0.0000	0.0000	0.0000	
86	TGR	1120.0022	220.0004	902.0007	0.0000	10.0006	8.0010	AIR HOSE
		310.0006	30.0001	0.0000	0.0000	C.0000	0.0000	
87	ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
		1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
		1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
		1500.0029	0.0000	1200.0023	1560.0029	280.0005	1200.0023	
83	RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89	ARB8	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
		1628.0042	914.0023	1031-0028	1628.0042	-914.0023	1031.0028	BULKHEAD
		1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
		1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90	RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91	ARBU	1628.0042	-914.0023	837.0019	1628.0042	914.0023	637.0019	ENG COMPT
		1628.0042	840.0016	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
		1626.0026	-914.0023	837.0019	1626.0026	914.0023	837.0019	BULKHEAD
		1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92	ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
		1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
		1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD
		1626.0026	716.6009	369.000C	1626.0026	-716.0009	369.0000	
93	ARBa	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
		1530.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

543.0033

2118.4166

801.0023

1033.0043

2218.416B

801.0023

TABLE D-1. SULID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLIO							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
	2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
110 ARB8	2642.0041	-861.6023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-294.9993	557.0013	2642.0041	-294.9993	627.0015	
	2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
	2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
111 ARBB	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-294.9993	1047.0023	2287.0047	-294.9993	557.0013	
	2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
	2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
112 RCC	2200.0043	148.0013	504 <b>.</b> 999 <b>7</b>	1260.0024	-148.0013	-47.0003	TUNNEL
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
113 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
114 RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	C.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	60.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2366.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.6638	548.0021	999.2857	-49.6115	0.0000		TORSO UP
	0.0000	144.5590	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5016	1254.5084	69.4540	0.0000		UP ARM LT

SOLIO							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
125 RCC	2272.254t	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126 TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127 TRC	2341.7089	355.4998	89 <b>7.195</b> 0	268.9667	0.0000	52.2810	LOW ARM RT
	42.4994	36.6001	0.CO00	0.0000	0.0000	0.0000	
128 RCC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129 ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130 SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131 SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132 SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW LT
133 SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134 SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135 SPH	3201.6076	460.5013	509.0002	50.0001	C.0000	.0.0000	ANKLE RT
136 REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
137 REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
	-9.5403	0.000	49.0806	0.0000	44.9988	0.0000	
138 SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139 SPH	2281.7951	358.6017	1205.4276	50.0001	0.0000	0.0000	SHLD JNT R
140 TRC	2879.5179	-460.5013	761.3172	57.3916	0.0000	-449.5869	DUMMY
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141 TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142 TRC	2379.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143 TRC	2386.7407	-460.5013	665.5309	492.7772	0.0003	95.7863	UP LEG LT
	80.00 <b>0</b> 2	66.0149	0.0000	0.0000	0.0000	0.0000	

SOL	LID							
NUM	TYPE			SULID PAR	AMETERS			REMARKS
144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.000	0.0000	0.0000	
145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
146	SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
147	REC	2402.0036	-546 . CO21	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.000	157.0006	0.0000	101.1076	0.0000	19.6546	
148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		C.C000	144.9990	0.0000	105.0345	0.0000	20.4166	
149	REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
151	RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
152	TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
153	TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.000C	0.0000	0.0000	0.0000	
154	RCC	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	C.0000	0.0000	0.0000	0.0000	0.0000	
155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	C.0000	0.0000	0.000	0.0000	0.0000	
	SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000		KNEE LT
	SPH	2879.51 <b>7</b> 9	-635.5003	761.3172	66.0149	C.0000	0.0000	KNEE RT
	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000		ELBOW LT
	SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000		ELBOW RT
	SPH	3201.0070	-460.5013	509.0002	50.0001	0.0000		ANKLE LT
	SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000		ANKLE RT
162	REC	2610.6756	-355.4998	949.4786	103.0711	0.0000		HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
163	REC	2610.6756	-740.5018	949.4786	103.0711	0.0000	20.0356	HAND RT

SOLIO				= =			
NUM TYPE			SCLID PAR	AMETERS			REMARKS
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164 SPH	2281.7951	-358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
166 ARB6	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
	3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
	3352.0055	0.0000	657.0015	3890.C075	0.0000	609.0004	
167 ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	221.5994	971.0026	3952.0066	181.9993	825.0003	(TWO)
	3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	
	3414.0071	220.4271	809.0008	3890.0075	181.9993	657.0015	
168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
	3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
	3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
	3889.6323	320.7245	656.5265	3893.9065	187.3181	667.5680	
169 ARBB	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
	3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
	3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
	3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	
170 ARB6	3988.0087	337.0009	755.0002	4296.0078	337.0009	723.0011	FEND INSD
	4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863	
	4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862	
171 ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8231	-455.3349	£26.5218	3987.8233	-338.3344	753.5219	
	3988.0067	-458.0019	864.0022	3987.6233	-459.3329	862.5214	
172 ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
	4246.8231	455.3349	826.5216	3987.8233	338.3344	753.5219	
	3988.0087	458.0019	664.0022	3987.8233	459.3329	862.5214	
173 ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND INSD
	3987.6760	-459.3456	662.5569	3099.6758	-495.3451	1099.5576	
	4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

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NUM	TYPE			SULID PAR	AMETERS			REMAR	K S
174	ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND	INSD
		3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576		
		4152.0070	694.C019	1046.0015	4151.6768	695.3455	1044.5588		
175	ARB6	3968.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND	INSD
		4245.6180	-455.2968	826.4913	3987.8182	-459.2973	862.4909		
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902		
176	ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909		
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902		
177	ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND	INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217		
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209		
178	ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND	INSD
		4151.8597	694.2381	1044.0229	3049.8587	494.2377	1099.0217		
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209		
179	ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND	INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014		
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014		
180	ARB6	310C.CO6C	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND	INSD
		4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014		
		3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014		
181	KPP	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBE	R
182	ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY	SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331		
		3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339		
1 0 3	ARB6	4017.0080	-894.0622	1080.0021	3465.0054	-917.0020	1013.0017	BODY	SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331		
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339		
184	ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY	ZIDE
		3412.0990	915.0107	981.6434	3465.0994	915.0107	1012.8442		
		3100.0060	893.0015	1101.0029	3100.0974	891.0101	1100.8429		

SOLID								
NUM TYPE			SCLID PAR	AMETERS			REMAR	KS
185 ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY	SIDE
	3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442		
	3100.0060	-693.0015	1101.0029	3100.0974	-891.0101	1100.8429		
186 ARB6	3412.0056	917.0020	962.0009	3007.0061	917.0020	971.0026	BODY	SIDE
	3007.0162	915.0361	970.6318	3412.0156	915.0361	981.6326		
	3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321		
187 ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	8 0D Y	SIDE
	3007.C162	-915.0361	970.6318	3412.0158	-915.0361	981.6326		
	3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321		
188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY	SIDE
	3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009		
	3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026		
189. ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY	SIDE
•	3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009		
	3007.0061	<b>-917.</b> 0020	971.0026	3007.0061	-915.0005	971.0026		
190 ARBU	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY	SIDE
	<b>2</b> 926.0052	91 <b>7.0</b> 020	837.0019	3007.0061	917.0020	971.0026		
	3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019		
	2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026		
191 ARBB	3412.0056	-917.C020	971.0026	3362.0055	-917.0020	837.0019	BODY	SIDE
	2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026		
	3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019		
	2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026		
192 ARB8	3362.0055	91 <b>7.</b> 0020	837.0019	3235.0050	843.0014	451.9999	BODY	SIDE
	1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019		
	3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783		
	1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803		
193 ARB8	3362.0055	-917.6020	837.0019	3235.0050	-843.0014	451.9999	BODY	SIDE
	1354.0031	-643.0014	451.9999	1229.0016	-917.0020	837.0019		
	3362.0055	-915.0386	837.3603	3235.0050	-841.0380	452.3783		
	1354.0031	-841.0380	452.3783	1229.0016	-915.0306	837.3803		

201	LID							
NUM	TYPE			SEL16 PAR	AMETERS			REMARKS
194	AKBB	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	RUCKER PAN
		1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
		3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
		1360.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195	ARBS	3235.0050	-843.0014	451.9999	3211-0070	-716.0009	369.0000	ROCKER PAN
		1380.0027	-716.6609	369.0000	1354.0031	-843.0014	451.9999	
		3235.0050	-641.9066	453.6763	3211.0070	-714.9061	370.6738	
		1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196	ARBB	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMBER
		180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
		121.9992	-741.0023	678.0023	121.9992	-742.0004	491.0017	
		121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197	ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMBER
		173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
		128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
		128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198	ARB8	1701.0041	917.C020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
		1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
		1701.0041	915.0005	1031.0026	1757.0C37	915.0005	837.0019	
		1229.0016	915.0005	637.0019	1171.CC30	915.0005	1031.0028	
199	ARBB	1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
		1229.0016	-917.0020	637.0019	1171.0030	-917.0020	1031.0028	
		1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
		1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
200	AKB8	1666.0027	893.C015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
		128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
		1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
		128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
201	ARBS	1666.0027	-893.0015	1123.0019	1701.0041	-917.0020		REAR SIDE
		128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
		1666.0027	-891.0660	1122.4965	1701-0041	-915-0665	1030.4973	

	SOL	10							
		TYPE			SCLID PAR	AMETERS			REMARKS
			128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
	202	ARBS	351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
			180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
			351.0014	915.1173	1031.6708	224.9992	740.1158	678.6678	
			160.0003	790.1158	678.6678	128.9995	915.1173	1031.6708	
	203	ARB8	351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023	REAR SIDE
			180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
			351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
			180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
	204	ARB8	115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
			180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
			117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
			181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
176	205	ARB8	115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
5			180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
			117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
			181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2643	
	206	ARB6	115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023	REAR
			184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	
			115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
	207	ARB6	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
			184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
			115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
	208	ARBU	4296.0078	0.000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
			4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
			4290.7906	0.0000	544.6201	4134.7908	0.0000	324.6184	
			4134.7900	261.9945	324.6184	4290.7906	311.0014	549.6201	
	209	ARB8	4296.0076	0.0000	546.0005	4140.0080	0.0000		FLOOR SKID
			4140.008C	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
			4290.790£	C.00CC	549.6201	4134.7908	0.0000	324.6184	
			4134.7906	-261.9995	324.6134	4290.7906	-311.0014	549.6201	

SOL								
NUM	TYPE			SULID PAR	AMETERS			REMARKS
210	ARBB	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
		3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
		4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
211	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
		3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
		4136.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
		3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
212	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
		3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
213	ARB 8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
		3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
		3957.6937	G.GOOC	294.3135	3214.6925	0.0000	375.3144	
		3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214	ARBE	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
		3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	
		3209.1020	714.0019	369.6146	3235.8838	841.0024	452.6145	
215	ARB8	3362.0055	-415.0005	637.0019	3211.0070	0.0000	369.0000	BULKHEAD
		3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
		3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
		3209.1020	-714.0019	369.6146	323 <b>5.</b> 883a	-841.0024	452.6145	
216	ARB8	3211.0070	0.000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
		3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
		3209.1147	0203	369.6527	3360.1157	914.9802	837.6547	
		3410.1158	914.9802	982.6537	3424.6320	0203	994.6527	
217	ARB8	3211.0070	0.0000	369.0000	3362.0055	-915.0005		BULKHEAD
		3412.0056	-915.0005	982.0009	3426.5243	G.0000	994.0024	
		3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	

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NUM TY				SULID PAR	AMETERS			REMARKS
		3410.115H	-914.9802	982.6537	3424.6320	•0203	994.6527	
218 RP	P	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
219 AK	BB	1316.0020	843.C014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
		92.9949	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
		1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
		115.9997	-667.0026	1123.0019	1341.0034	-887.0020	1123.0019	
220 AR	8 B 8	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
		95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
		1336.9790	890.9110	1123.0019	118.0190	890.911 <b>0</b>	1123.0019	
		118.0190	-864.9369	1123.0019	1338.9790	-884.9369	1123.0019	
221 TG	IR .	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
222 TO	)R	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0003	0.0000	0.C000	0.0000	0.0000	CORNER
223 AR	BB	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1460.3026	ROLL BAR
		2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
		2792.6604	635.0000	1345.8395	2749.1062	844.2511	1402-2024	
		2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224 AR	888	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
		2751.7046	-644.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
		2793.0052	-635.0000	1345.9536	2749.1062	-844.2511	1402.2024	
		2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225 RC	C	2753.0051	635.0006	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
226 RC	C	2312.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.000	0.0000	
227 RC	C	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228 RC	C	2735.0040	C.0000	1522.0019	351.8498	0.0000		CENTRE BAR
		11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229 TO	IR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

SULID									
NUM TYPE	SOLID PARAMETERS								
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER		
230 TOR	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR		
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER		
231 ARB6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR		
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER		
	1582.0020	672.0003	1461.0036	1480.C029	672.0003	1429.0020			
232 ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR		
	1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER		
	1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020			
233 RCC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR ROLL		
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP		
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL		
	27.0003	0.000	0.0000	0.0000	0.0000	0.0000	BAR SIDE		
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL		
	27.0003	C.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE		
236 RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT		
	27.0003	0.0000	0.0000	0.0000	C.000C	0.0000	SUPPORT		
237 RCC	2050.0040	464.9996	1601.0039	-550.0011	207.0007	-54.0006			
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000			
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT		
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT		
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT		
	27.0003	0.0000	0.0000	C.0000	0.0000	0.0000	SUPPORT		
240 ARB6	3988.0067	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD		
	4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011			
	3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835			
	4295.1747	0.6000	721.1825	4295.1747	378.0017	721.1825			
241 ARBS	3988.0087	-458.0019	864.0022	3988.C087	0.0000	864.0022	FRONT HOGD		
	4296.0076	0.0000	723.0011	4296.0078	-378.0017	723.0011			
	3987.1756	-456.0019	862 • 1835	3987.1756	0.0000	862.1835			
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825			

SUL	ID							
NUM	TYPE			SOLID PAR	AMETERS			REMARKS
242	ARB8	3988.0087	0.000	864.0022	3988.0087	-458.0019	864.0022	нооо
		3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
		3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243	ARBB	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
		3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
		3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
		3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244	ARB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009	723.0011	FEND INSD
		4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
		4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245	ELL1	4220.0082	350.0007	673.0014	180.0003	0.0000		HEADLIGHT
		80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246	RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247	ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
248	RPP	4040.0076	4220.0082	-530.0010	-170.0603	683.0011	1053.0018	HEADLIGHT
249	RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
		20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250	TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
		190.0004	14.9986	0.0000	0.0000	0.0000	0.0000	
251	RPP	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0009	TOP DECK F
252	RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253	RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254	RCC	2236.0036	168.0013	1610.0031	0.0000	0.0000	-800.0015	PEDESTAL
		70.0001	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
255	RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
		300.0006	0.0000	0.0000	0.000	0.0000	0.0000	MOUNT
256	BOX	3377.0068	-870.0017	937.0021	0.000	168.0013		RADIO SET
		-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	
257	BUX	3377.0066	-650.0013	937.0021	0.0000	406.0003	0.0000	<b>GUIDANCE</b>
		-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET

SOLID							
NUM TYP	E		SOLID PAR	AMETERS			REMARKS
258 RCC	2236.0038	168.0013	1610.0631	0.0000	0.0000	338.0017	TRAVERSE
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259 RPP	2151.0049	2321.0053	£2.9999	253.0002	1720.0033	1948.0048	TRAVERSE
260 ARB	8 2286.0039	2 <b>97.</b> 0008	1710.0033	2366.0041	297.0008	1695.0020	TRAVERSE
	2366.0041	297.0008	1950.0038	2286.0039	297.0008	1950.0038	UNIT
	2286.0039	40.0001	1710.0033	2366.0041	40.0001	1695.0020	
	2366.0041	40.0001	1950.0036	2286.0039	40.0001	1950.0038	
261 ARB	8 2186.0037	297.0008	1710.0033	2106.0036	297.0008	1695.0020	TRAVERSE
	2106.0036	29 <b>7.</b> 0008	1950.0038	2186.0037	297.0008	1950.0038	UNIT
	2186.0037	40.0001	1710.0033	2106.0036	40.0001	1695.0020	
	2106.0036	40.0001	1950.0038	2186.0037	40.0001	1950.0038	
262 RCC	2236.0038	52.9998	1665.0024	0.0000	-80.0002	0.0000	
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263 SPH		166.0013	1650.0032	1.0008	0.0000	0.0000	
264 SPH		168.0013	1650.0032	1.0008	0.0000	0.0000	
265 RCC	1631.5653	160.0013	1885.0024	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266 RCC	1631.5653	168.0013	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
267 TRC	2381.2721	168.0013	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
268 TRC	2381.2721	168.6013	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	72.933E	62 <b>.227</b> 7	0.0000	C.0000	0.0000	0.0000	INTERIOR
269 RCC	1631.5653	168.0013	1885.0024	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
270 RCC	2269.5751	168.0013	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.000	0.0000	0.0000	MOTOR
271 SPH		168.0013	1885.0024	93.4571	0.0000		FLHT MOTOR
272 RPP		2407.9422	93.7949	242.2077	1810.7985	1959.2088	FLHT MOTOR
273 RCC		168.0013	1885.0024	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.000	0.0000	0.0000	

SOL	ID							
NUM	TYPE			SGLID PAR	AMÉTERS			REMARKS
274	ELL1	2731.7681	168.0013	1885.0024	98.4254	0.0000	0.0000	WARHEAD
		63.5003	0.000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
275	ELLI	2731.7681	168.0013	1885.0024	95.8854	0.0000	0.0000	WARHEAD
		60.9602	0.000	0.0000	0.000	0.0000	0.0000	NOSE -INT
276	RCC	1588.0041	168.0013	1885.0024	1285.7505	0.0000	0.0000	MSSLE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277	RCC	1589.6297	168.C013	1885.0024	1262.4993	0.0000	0.0000	MSSLE CASE
		76.5176	0.0000	0.0000	0.000	0.0000	0.0000	INTERIOR
278	RCC	2129.4047	454.0014	2018.0049	419.1017	0.0000	0.0000	SIGHT
		64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	
279	RCC	2129.4047	327.0009	2018.0049	419.1017	0.0000	0.0000	
		50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	
280	RPP	2129.4047	2281.8053	276.2007	545.4417	1954.5047	2094.2052	
281	RAW	2154.8048	276.2007	1953.1534	0.0000	177.8007	0.0000	
		0.0000	C.0000	-101.6004	152.4006	0.0000	0.0000	
282	RCC	2236.0038	168.0013	1685.0024	640.0012	0.0000	0.0000	LAUNCHER
		84.0007	0.0006	0.0000	0.0000	0.0000	0.0000	00
283	RCC	2236.0036	166.0013	1885.0024	640.0012	0.0000	0.0000	LAUNCHER
		61.0009	C.0000	0.0000	0.0000	0.0000	0.0000	ID
284	TRC	2876.0051	168.0013	1885.0024	100.0002	0.0000	0.0000	LAUNCHER
		84.0007	77.6004	0.0000	0.0000	0.0000	0.0000	TAPER GD
285	TRC	2876.0051	166.0013	1885.0024	100.0002	0.0000	0.0000	LAUNCHER
		81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	TAPER ID
286	RCC	2976.0053	168.0013	1885.0024	400.0608	0.0000	0.0000	LAUNCHER
		77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	
287	R C C	2976.0053	166.0013	1635.0024	400.0C08	0.0000		LAUNCHER
		74.9969	C.C000	0.000	0.0000	0.000	0.0000	
288		2236.0036	2736.0048	98.0012	238.0015	1710.0033	1740.0034	
289	REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000		BODY ARMUR
		0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
290	REC	2371.4753	548.6021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR

SOLID							
NUM TYPE	:		SGLID PAR	AMETĒRS			REMARKS
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
	54.0006	0.000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292 RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 RPP	1741.CO41	1778.0045	-757.0017	-68£.000£	514.9997	643.0010	N S
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295 RPP	1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296 ARB	1781.0042	-737.0017	553.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	C.0000	0.0000	0.0000	0.000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.000	202.5404	0.0000	W22FE 2KIN
	72.9338	62 <b>.</b> 22 <b>77</b>	C.000C	0.0000	0.0000	0.0000	INTERIOR
301 RCC	1200.0023	-706.4403	1368.0037	0.000C	434.7227		LAUNCH
	26.5431	0.0000	0.000	0.0000	0.0000	0.0000	
302 RCC	1200.0023	-66.4304	1368.0037	0.0000	111.6969		FLIGHT
	74.2064	C.000C	0.0000	0.0000	0.0000	<b>6.</b> 000 <b>0</b>	
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000		FLHT MOTOR
304 RPP	1125.7959	1274.2087	43.2665	69.9366	1293.7973		FLHT MOTOR
305 RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556		WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 ELL:		393.7625	1368.0037	0.0000	48.4254		WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.000 <b>0</b>	0.0000	NOSE - EXT

8.

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID			(0.15				REMARKS
NUM TYPE	SOLID PARAMETERS						
307 ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
308 RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIGR
309 RCC	1200.0023	-748.3758	1368.0037	0.C000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 RCC	1010.0020	-726.4404	1368.0037	C.0000	638.0099	0.0000	MSSLE SKIN
•	72.9364	0.0000	0.0000	0.000	0.0000	0.0000	INTERIOR
312 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	C.COUO	0.0000	0.0000	EXTERIOR
313 TPC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.3000	MSSLE SKIN
	72.9338	62.2277	0.0000	C.0000	0.0000	0.3000	INTERIOR
314 RCC	1010.0620	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.000 <b>0</b>	MOTOR
315 RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	C.COOO	0.0000	0.0000	0.0000	MOTOR
316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
317 RPP	935.7956	1064.2063	-6.7336	19.9365	1293.7973	1442-2101	FLHT MCTOR
318 KCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
319 ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	6.6660	0.0000	G.CC00	C.0000	0.0000	NOSE - EXT
320 ELL1	1010.0020	343.7674	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NDSE -INT
321 RCC	1010.0020	-800.0015	1368.0037	G.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	<b>U.U000</b>	EXTERIOR
322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1202.4993	0.0000	MSSLE CASE
	76.517t	0.000	0.0000	0.0000	0.0000	0.0000	INTERIOR
323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN

SOL								REMARKS		
NUM	TYPE	SCLID PARAMETERS								
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR		
324	RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN		
		72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR		
325	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN		
		74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR		
326	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN		
		72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR		
327	RCC	820.0016	-706.4403	1368.0037	0.000	434.7227	0.0000	LAUNCH		
		26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTGR		
328	RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT		
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR		
329	SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLAT MOTOR		
330	RPP	745.7952	894.2080	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR		
331	RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD		
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000			
332	ELLI	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD		
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT		
333	ELLI	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD		
		60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT		
334	RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE		
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR		
335	RCC	820.0016	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE		
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR		
336	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN		
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR		
337	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN		
		72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR		
338	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404		MSSLE SKIN		
		74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR		
339	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN		
		72.9336	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR		

SOLIU							
NUM TYPE			SOLID PAR	AMETERS			REMARKS
340 RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.C000	0.0000	0.0000	MOTOR
341 RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.000	0.0000	MOTOR
342 SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343 RPP	555.7948	704.2076	-6.7336	14.9365	1293.7973	1442.2101	FLHT MOTOR
344 RCC	630.0012	195.6068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345 ELL1	630.0012	343.7624	1368.0637	0.0000	98.4254	0.0000	WARHEAD
*	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346 ELL1	630.0012	343.7624	1368.0037	0.C000	95.8854	0.0000	WARHEAD
	60.9602	0.000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
347 RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505		MSSLE CASE
	80.6453	C.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348 RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349 TRC	2028.0049	541.5022	816.0011	G.0000	0.0000		LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350 TRC	2028.0049	366.5006	816.0011	0.0000	0.0000		LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351 TRC	2028.0049	541.5022	1318.0036	0.0000	0.0000		UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0 <b>.0</b> 000	
352 TRC	2028.0049	366.5006	1318.0036	C-C000	0.0000		UP LEG RT
	80.0602	66.0149	0.0000	0.0000	0.0000	0.0000	
353 SPH	2028.0049	541.5022	1318.0036	69 <b>.499</b> 8	0.0000		HIP JNT LT
354 SPH	2028.0049	366.5006	1318.0036	69.4998	0.0000		HIP JNT RT
355 REC	2028.0049	454.0014	1238.0034	0.0000	0.0000	160.0003	291H
	0.0000	157.0006	0.0000	102.9999	0.0000	0.0000	
356 REC	2026.0049	454.0014	1398.0037	0.0000	0.0000		TORSO LOW
	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	
357 REC	2028.0049	454.0014	1658.0042	0.0000	0.0000	260.0005	TORSO UP

SOLID							
NUM TYP	E		SOLID PAR	AMETERS			REMARKS
	0 0000	1// 6666	0.000	107 0005	0.0000	0 0000	
250 000	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	L.D. 40M 4.7
358 RCC	2028.0049	646.5011	1918.6047	0.0000	13.9904	-363.7320	UP ARM LI
250 000	47.5007	0.0000	0.000.0	0.0000	0.0000	0.0000	
359 RCC	2028.0049	261.5016	1918.0047	0.0000	-13.9904	-363.7320	UP ARM RI
2/0 520	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360 TRC	2028.0049	660.4915	1554.2728	0.0000	10.5309		LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.000	0.0000	
361 TRC	2028.0049	247.5113	1554.2728	193.7469	•5309		LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362 RCC	2028.0049	454.0014	1918.0047	0.0000	0.0000	71.9991	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363 ELL		454.0014	2038.0050	100.0002	0.0000	0.0000	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364 SPH	2028.0049	541.5022	816.0011	66.0149	0.0000	0.0000	KNEE LT
365 SPH	2028.0049	366.5006	816.0011	66.0149	0.0000	0.0000	KNEE RT
366 SPH	2028.0049	660.4915	1554.2702	42.4994	0.0000	0.000C	ELBOW LT
367 SPH	2028.0049	247.5113	1554.2728	42.4994	0.0000	0.0000	LLBOW RT
368 SPH	2028.0049	541.5022	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369 SPH	2028.0049	366.5006	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370 REC	2028.0049	670.5220	1280.4825	0.0000	0.0000	-104.9989	HAND LEFT
	50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
371 REC	2221.7518	247.5113	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
	34.9988	0.0000	34.9988	0.0000	44.9988	0.0000	
372 SPH	2028.0049	644.0018	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373 SPH	2028.0049	264.0010	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374 RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
	60.0001	C.0000	0.0000	0.0000	0.0000	0.0000	
375 RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376 RCC	1081.6029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	

SOLID			20				
NUM TYPE			SOLID PAR	AMETERS			REMARKS
377 RCC	801.0023	228.9497	799.0008	0.0000	0.0000	-369.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
378 RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
379 KCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258 <b>.99</b> 97	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
380 RCC	1631.5653	-108.9994	1895.0024	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
381 RCC	1631.5653	-108.9994	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.000	0.0000	0.0000	0.0000	INTERIOR
382 TRC	2381.2721	-108.9994	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIUR
383 TRC	2381.2721	-108.9994	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	72.9336	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1631.5653	-106.9994	1885.0024	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	2269.5751	-108.9994	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.000	0.0000	0.0000	0.0000	MOTOR
386 SPH	2324.4622	-106.9994	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
387 RPP	2381.2721	2407.9422	-183.2058	-34.7931	1810.7985	1959.2088	FLHT MOTOR
388 RCC	<b>2583.812</b> 5	-108.9994	1885.0024	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	2731.7681	-108.9994	1885.0024	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
390 ELL1	2731.7681	-108.9994	1885.0024	95.8854	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
391 RCC	1588.0041	-108.9994	1685.0024	1285.7505	0.0000	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1589.6297	-108.9994	1885.0024	1282.4993	0.0000		MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
393 RCC	1300-0025	700.0014	1362.0016	-160.0003	0.0000	0.000	TRIPOD

SOLIU NUM TYPE			SOLID PAR	AMETERS			REMARKS
			30210 1 411				RETIRANS
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394 RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395 KCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396 RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397 REC	2028.0049	454.0014	1398.0037	0.0000	0.0000	520.0010	ARMOR VEST
	0.0000	157.6991	0.0000	119.7005	0.0000	0.0000	
398 RPP	1300.0025	2698.C062	760.0015	780.0015	1610.0031	2225.0030	GUN ARMOR
399 RPP	1300.0025	2698.0062	-780.0015	-760.0015	1610.0031	2225.0030	GUN ARMOR
400 ARB6	2616.0061	400.0008	1610.0031	1958.0048	400.0008	1610.0031	SHROUD
	1748.0044	400.C008	2242.0033	2888.0066	400.0008	2242.0033	LIMITER
	2618.0061	-820.0016	1610.0031	1958.0048	-820.0016	1610.0031	
	1748.0044	-820.0016	2242.0033	2888.0066	-820.0016	2242.0033	
401 RPP	140.0003	1300.0025	-830.0016	58C.C011	1287.0027	1487.0031	TOW ARMOR
402 RPP	160.C003	1281.0032	-810.0016	560.0011	1287.0027	1467.0031	TOW ARMOR
403 ARB8	3988.0087	-458.0019	864.0022	3988.0087	458.0019	864.0022	HOOD ARMOR
	3100.0060	494.0015	1101.0029	3100.0060	-494.0015	1101.0029	(APRON)
	3988.0087	-458.0C19	884.7007	3988.0087	458.0019	884.7007	
	3100.0060	494.0015	1121.7014	3100.0060	-494.0015	1121.7014	
404 ARB8	3100.0060	-920.0018	1101.0029	3100.0060	920.0018	1101.0029	WINDSHIELD
	2698.0062	760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR
	3100.0060	-920.C018	1140.7922	3100.0060	920.0018	1140.7922	
	2698.0062	760.0015	1671.7939	2698.0062	-760.0015	1671.7939	
405 ARB8	3100.0060	920.C018	1101.0029	1300.0025	920.0018	1101.0029	LEFT SIDE
	1300.0025	760.0015	1610.0031	2698.0062	760.0015	1610.0031	ARMOR HI
	3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029	
	1300.0025	780.0015	1610.0031	2698.0062	780.0015	1610.0031	
406 ARB8	3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029	
	1400.0027	920.0018	831.0024	2930.0057	920.0018	831.0024	ARMOR LO

TABLE D-1. SULID DATA FOR GPTION 3 XR311 (CONTINUED)

SOLID	)							
NUM TY	PE			SOLID PAR	AMETERS			REMARKS
		3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101-0029	
		1400.0027	940.0018	831.0024	2930.0057	940.0018	831.0024	
407 AR	88	3100.0060	-920.0018	1101-0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1300.0025	-760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR HI
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
		1300.0025	-780.0015	1610.0031	2698.0062	-780.0015	1610.0031	
408 AR	88	3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1400.0027	-920.0018	831.0024	2930.0057	-920.0018	831.0024	ARMOR LO
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
		1400.0027	-940.0018	831.0024	2930.0057	-940.0018	831.0024	
409 RP	ρ	1300.0025	2698.0062	-780.0015	760.0015	2225.0030	2245.0031	ARMOR
410 RC	c .	2288.0054	-140.0003	1610.0031	0.0000	0.0000	30.0001	ROOF RING
		330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	CUTOUT

	REG NUM								REGIO	IN	COMBINAT	ION DAT	Δ			REMARKS
		0.0	,	0.0	2	<b>.</b>	•		•		•	•	•	•	•	CIIMD
	1	OR	1	OR		ΠR	3		0		0	0	0	0		SUMP
	2	2.5	4		-35		0		0		0	0	0	0	0	BLOCK
	3	OR	5	OR	6		-106		0		0	0	0	0	0	MANIFOLD
	4		7		0		C		0		0	0	0	0	0	CARB
	5		8		-14		O		0		0	C	0	0	0	DIL FILT
	6		9		0		0		0		0	0	0	0	O	PUMP H20
	7		10		0		0		0		0	0	0	0	0	AIR FILT
	8		11		0		0		0		0	0	0	0	0	PUMP GAS
	9		12		O		0		0		0	0 .	0	0	0	GAS FILT
	10		13		-106		C		0		0	0	0	0	0	RADIATOR
	11		16		<b>-</b> 8		-17		-100		0	0	0	0	0	TRANS ADP
19	12	OR	18	OR		OR	20	OR	21	OR	14	-15	-100	0	0	TRANS
	13	OR	22	OR	23	OR	24	OR	25		O	0	O	0	0	
	14		26		0		0		U		0	0	0	0	0	
	15		2 <b>7</b>		O		O		0		0	0	0	0	0	
	16		28		-29		-26		0		0	0	0	0	0	
	17		30		0		0		0		0	0	0	0	0	
	18		31		Ü		0		0		0	0	0	0	0	
	19		32		0		0		0		0	0	0	0	0	
	20		33		0		C		0		0	0	0	0	0	
	21		34		0		0		0		0	0	0	0	0	
	22		35		0		0		0		0	0	0	0	0	
	23		36		0		C		0		С	0	0	0	0	
	24		37		O		0		0		0	0	0	0	0	
	25		38		С		C		0		0	0	0	0	0	
	26		39		0		C		0		0	0	0	0	O	
	27	OR	40	OR	41	ÜR	42	OF	43		-99	0	0	0	0	
	28	•	44		0	-	0		o		0	0	0	0	0	
	29		45		Ö		ō		0		Ō	0	0	0	0	
	30		48		-49		Č		Ü		Ō	Ö	Ö	0	0	TIRE
	31		49		-46		-47		-51		-52	-53	-54	-55	o	WHEEL

REG										
NUM				REGIO	N COMBIN	NATION DA	ATA			REMARKS
32	58	-59	0	0	0	0	0	0	0	TIRE
33	59	-56	-57	-61	-62	-63	-64	-65	0	WHEEL
34	68	-69	0	0	0	0	0	0	Ö	TIRE
35	69	-66	-67	-71	-72	-73	-74	-75	0	WHEEL
36	78	-79	0	0	0	0	0	0	Ō	TIRE
37	79	-76	-77	-81	-82	-83	-84	-85	0	WHEEL
38	86	87	-7	-10	-34	-5	0	0	0	AIR HOSE
39	88	-112	-18	-19	-20	-21	-91	-92	-100	FLW
40 DR		OR 90	-16			-16	-100	0	0	BULKHD
41	93	-94	0	0	0	0	0	0	0	TRANS COVER
42	95	-96	-27	-112	0	0	0	0	0	TRANS COVER
43	97	0	O	0	0	0	0	0	0	TRANS COVER
44	98	0	0	0	0	0	0	0	0	TRANS U JNT
45	99	0	0	0	0	0	0	0	0	TRANS U JNT
46	100	-101	0	0	0	0	0	0	0	REAR PROP
47	102	0	0	0	0	0	0	0	0	U-JOINT
48	103	0	0	0	0	0	O	0	0	TMIOL-U
49	104	0	0	0	0	0	0	0	0	REAR AXLE
50	105	0	0	0	0	0	0	0	0	REAR AXLE
51	106	107	0	0	0	0	O	0	0	H2O HOSE
52	50	0	0	0	0	0	0	0	0	DISC BRAKE
53	60	-39	C	O	0	0	0	0	0	DISC BRAKE
54	70	0	0	0	0	0	0	0	0	DISC BRAKE
55	80	-103	O	0	0	0	0	. 0	0	DISC BRAKE
56	114	112	-113	0	0	0	0	0	0	TUNNEL
57	108	0	0	0	0	0	0	0	0	SEAT
58	109	0	C	0	0	0	O	0	0	SEAT
59	110	0	0	0	0	0	O	0	0	SEAT
60	111	O	O	0	0	0	0	0	0	SEAT
61	115	-117	-130	-134	0	0	0	0	0	LOW LEG LT
62	116	-118	-131	-135	0	O	0	0	0	LOW LEG RT

REG										
NUM				REGION	COMBINATION	DATA			F	REMARKS
63	117	-130	-119	-121	O	0	0	0	O	UP LEG LT
64	118	-131	-120	-121	0	0	C	0	. 0	UP LEG RT
65	119	0	C	0	0	0	0	0	0	HIP JNT LT
66	120	O	O	0	0	0	0	0	0	HIP JNT RT
67	121	-119	-12G	-122	0	0	0	0	0	HIPS
68	122	-123	0	O	0	C	0	0	0	TORSO LOW
69	123	0	O	0	0	0	0	0	0	TORSO UP
70	124	-132	-126	-138	0	0	0	0	0	ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0	ARM UP RT
<b>7</b> 2	126	-132	c	0	0	C	C	0	0	ARM LOW LT
73	127	-133	С	0	0	0	0	0	0	ARM LOW RT
74	128	-123	0	0	0	0	0	0	0	NECK
75	129	-128	0	0	0	0	0	0	0	HE AD
76	130	O	0	0	0	0	0	0	0	KNEE LT
77	131	Ü	C	0	0	0	0	0	0	KNEE RT
<b>7</b> 8	132	0	0	0	0	0	0	0	0	ELBOW LT
79	133	0	0	0	0	C	0	0	0	ELBOW RT
80	134	0	O	0	0	0	0	0	0	ANKLE LT
81	135	ð	U	Ü	C	0	0	0	0	ANKLE RT
62	136	-126	<b>O</b>	0	0	C	С	0	O	HAND LEFT
83	137	-127	-250	0	0	0	0	0	0	HAND RT
84	138	-123	õ	0	0	С	C	0	0	SHLD JNT L
85	139	-123	0	0	0	0	0	O	0	SHLD JNT R
86 OR	166 CR	167	LR 168 OR	169	0	0	0	0	0	FUEL CELL
87	141	-143	-156	-160	0	С	0	0	0	LOW LEG LT
88	142	-144	-157	-161	0	U	0	0	0	LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	C	UP LEG LT
90	144	-157	-146	-147	0	C	0	0	O	UP LEG RT
91	145	C	0	0	0	0	0	0	0	HIP JNT LT
92	146	C	C	O	C	0	0	0	C	HIP JNT RT
93	147	-145	-146	-148	C	0	С	0	O	HIPS

REG Num				REGION	COMBINATI	ON DATA				REMARKS
94	148	-149	0	0	O	0	0	0	0	TORSO LOW
95	149	G	0	0	0	0	0	0	0	TORSO UP
96	150	-158	-152	-164	0	0	0	0	0	ARM UP LT
97	151	-159	-153	-165	0	0	0	0	0	ARM UP RT
98	152	-158	0	0	0	0	0	0	0	ARM LOW LT
99	153	-159	O	0	0	C	0	0	0	ARM LOW RT
100	154	-145	0	0	0	C	0	O	0	NECK
101	155	-154	0	0	0	0	O	0	0	HEAD
102	156	0	C	0	0	0	0	0	0	KNEE LT
103	157	C	0	0	0	0	0	0	0	KNEE RT
104	158	O	0	0	0	0	0	0	0	ELBOW LT
105	159	0	0	0	0	0	O	0	0	ELBOW RT
106	160	C	C	O	0	0	O	0	0	ANKLE LT
107	161	υ	0	0	0	0	0	0	0	ANKLE RT
108	162	-152	C	0	0	0	0	0	0	HAND LEFT
109	163	-153	0	0	0	C	0	0	C	HAND RIGHT
110	164	-149	0	O	0	0	0	O	0	SHLD JNT L
111	0	0	0	0	0	O	0	0	0	DUMMY
112	165	-149	0	0	0	0	0	0	0	SHLD JNT R
113 OR	170 0	IR 172	UK 174 OK	176 0	k 178 OK	180 OR	243 DR	240	-170	FT TOP LF
114	181	-218	0	0	0	0	0	0		F BUMBER
115 OR	202 0	IR 184	OR 186 OR	168 0	R 190 OK	192 UR	198 OR	200 DR		LEFT SIDE
	-180	0	0	0	0	0	0	C	0	
116 OR	2 <b>03</b> 0	R 185	GR 187 OR	189 01	R 191 OK	193 OR	199 DR	201 DR	183	RIGHT SIDE
	-179	0	O	O	0	0	0	0	0	
117	194	-192	-88	-214	-92	0	0	0	0	ROCKER LFT
118	195	-193	-88	-215	-92	0	O	0	0	ROCKER RGT
119	196	-197	0	0	0	0	0	O	0	REAR BUMBER
120 OR	2 <b>0</b> 6 0			-202 UI		-203	0	0	0	R SHT MET
121 OR	2 <b>0</b> 8 U	_	UR 210 OK	211 0		213	0	0	0	FLOOR SKID
122 OR	214 0	iR 215	OR 217	-28 0	R 216	-28	0	0	C	BULKHEAD

REG										
NUM				REGION	COMBINATI	ON DATA				REMARKS
123	219	-220	-206	o	0	0	0	0	0	ENG DECK
124	221	223	C	Ö	Ö	Ö	Ö	Ö	Ö	ROLL BAR
125	222	224	0	0	Ō	0	Č	0	Ō	ROLL BAR
126	226	-223	С	0	0	0	Ō	Ō	Ō	ROLL BAR
127	227	-224	0	0	0	0	С	0	0	ROLL BAR
128 DR	228 DR	225 UR	239 OR	238 0	233	0	0	0	0	ROLL TOP
129	229	231	-233	0	0	0	0	0	0	ROLL BAR RR
130	230	232	-233	-239	0	0	0	0	0	ROLL BAR RR
131 OR	244 OR	171 OR	173 OR	175 0	177 OR	179 OR	242 OR	241	-244	FT TOP RT
132	234	-16	C	0	0	0	O	0	0	ROLL BAR RR
133	235	-16	O	0	0	0	0	0	0	ROLL BAR RR
134	245	246	0	0	0	0	0	0	0	HEADLIGHT
135	247	248	0	0	0	G	0	0	0	HEADLIGHT
136	249	0	0	0	0	0	0	0	0	STEERING C
137	250	0	O	О	0	0	0	0	0	STEERING W
138	251	-235	-234	0	0	C	0	O	0	ENG TP DC
139	25 <b>2</b>	С	Ü	С	0	0	0	0	0	BATTERY
140	253	0	0	O	0	0	0	0	0	BATTERY
141	254	-361	-371	-93	0	0	0	0	0	PEDESTAL
142	256	0	0	0	0	C	0	0	0	GRC160 RADI
143	25 <b>7</b>	0	O	0	0	0	0	0	0	GUIDANCE
144 OR	262 DR	258	-259	-260	-261	0	0	0	0	TOW MOUNT
145 UR	265	-266 DR	267	-268	-271	0	O	0	C	MISSILE SKN
146	269	0	C	0	0	0	0	0	0	LAUNCH MOTR
147 CR	270 DR		272	0	O	0	0	0	0	FLIGHT MOTR
148	274	<del>-</del> 273	-275	0	0	0	0	0	0	WARHEAD NSE
149 OR	268	-272 OR	273	0	G	0	0	G	0	WARHEAD
150	266	-269	C	0	0	0	0	0	0	MISCL - AFT
151	276	-277	C	0	0	0	0	0	0	MISSILE CAS
152 OR	278 OR	279 OK	280 DK	281	0	0	0	0	0	SIGHT
153	282	-283	-288	0	0	0	0	0	0	LAUNCHER

TABLE J-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

R E G NUM								ĸEGI(	ON (	COMBI	NAT	IGN DA	TA			REMARKS
154		284		-285		0		0		0		0	(	) (	) 0	LAUNCHER
155		286		-287		0		0		0		0	(		_	
156		289		-148		-149		-154		-164		-165	-150	-151	_	
		-158		-159		-152		-153		0		0	(			
157		290		-122		-123		-128		-138		-139	-124	-125	0	BODY ARMOR
		-132		-133		-126		-127		0		0	(	) (	0	
158	0R	291	OR	292	UR	293	OR	294	OR	295	OR	296	(	) (	0	NIGHT SIGH
159	0R	297		-298	ВR	299		-3CO		-303		0	(	) (	0	MISSILE SKN
160		301		Ç		C		0		0		0	(	) (	0	LAUNCH MOTR
161	0R	302	OR	303		304		0		0		0	(	) (	0	FLIGHT MOTR
162		306		-305		-307		0		0		0	(	) (	0	WARHEAD NSE
163	OR	300		-304	ũR	305		0		0		0	(	) (	0	WARHEAD
164		298		-301		0		O		0		0	(	) (	0	MISCL - AFT
165		308		-309		C		0		0		0	(	) (	0	
166	OR	310		-311	08	312		-313		-316		0	(	) (	0	MISSILE SKN
167		314		C		O		С		0		0	(	) (	0	
168	OR	315	OP	316		317		0		0		0	(	) (	0	
169		319		-318		-320		0		o		0	(	) (	0	
170	0R	313		-317	Ok	318		0		0		0	(	) (	0	
171		311		-314		C		0		0		0	(	) (	) 0	
172		321		-322		Ü		0		0		0		) (	0	
173	OR	323		-324	Ūĸ	325		-326		-329		0		(	) 0	
174		327		0		С		0		0		0		) (	) 0	
175	UR	328	υR			330		0		C		0			) 0	
176		332		-331		-333		0		0		0		•	0	
177	OR	326		-330	ÜŘ	331		0		0		0		) (	•	
178		324		-327		0		0		0		0		) (	_	
179		334		-335		C		O		0		0		) (	·	
180	OR	336		-337	ÜK	338		-339		-342		0		) (	_	
181		340		0		0		0		0		0		) (	•	
182	nR	341	GR	342		343		0		0		0		) (	) 0	FLIGHT MOTR

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TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG										
NUM				RECION	COMBINA	TIEN DATA				REMARKS
183	345	-344	-346	С	C	C	0	0	0	WARHEAD NSE
184 OR	339	-343 [	R 344	O	0	0	0	0	0	WARHEAD
185	337	-340	O	0	0	0	0	0	0	MISCL - AFT
186	347	-348	0	0	0	0	0	0	0	MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	LOW LEG RT
189	351	-364	-353	-355	0	0	0	0	O	UP LEG LT
190	352	-365	-354	-355	0	0	O	0	0	UP LEG RT
191	353	O	0	0	O	0	C	0	C	HIP JNT LT
192	354	0	0	0	0	0	0	0	0	HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	HIPS
194	356	-357	С	0	0	0	С	0	0	TORSO LOW
195	357	O	0	O	0	0	0	0	0	TORSO UP
196	358	-366	-360	-372	0	0	0	0	0	ARM UP LT
197	359	-367	-361	-373	-276	0	0	ð	0	ARM UP RT
198	360	-366	C	0	0	0	0	0	0	ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	ARM LOW RT
200	362	-357	C	0	0	0	O	0	0	NECK
201	363	-362	0	0	0	0	0	0	0	HE AD
202	364	-93	0	0	0	O	0	0	0	KNEE LT
203	365	O	O	O	0	0	0	0	0	KNEE RT
204	366	0	О	0	O	0	C	0	0	ELBOW LT
205	367	O	0	0	0	0	0	0	0	ELBOW RT
206	368	С	C	0	0	C	0	0	0	ANKLE LT
207	369	C	O	0	0	0	0	0	0	ANKLE RT
208	370	-366	C	0	0	0	C	0	0	HAND LT
209	371	-361	0	С	0	0	0	0	0	HAND RT
210	372	-357	0	C	0	0	C	0	0	SHLD JNT L
211	373	-357	-276	O	C	0	С	0	0	SHLD JNT
212	374	0	C	0	0	O	O	0	0	STARTER
213 OR	375 CR	37€	Ú	C	0	0	0	0	0	CABLE

TABLE G-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

	REG Num							REGION	COMBINA	TION UAT	ΓΑ			REMARKS
	214 OF	377	GR	37b	OR	379		0	0	0	0	0	0	GAS LN
	215 DR	380		-381	OR	382		-383	-386	0	0	0	0	MISSILE SKN
	216	384		0		0		0	0	C	0	0	0	LAUNCH MOT
	217 UR	385	OR	386		387		0	0	G	0	0	0	FLIGHT MOT
	218	389		-386		-396		0	0	0	O	0	0	WARHEAD NOS
	219 OR	383		-387	Ok	388		0	0	0	0	0	0	WARHEAD
	220	381		-384		Ú		O	0	0	O	0	0	MISCL AFT
	221	391		-392		0		0	0	0	0	0	0	MISSILE CAS
	222 UR	393	0R	394	۵ĸ	395	OR	396	0	0	0	0	0	TRIPOD
	223	397		-356		-357		-358	-359	-360	-361	-362	0	
		-366		-367		-372		-373	0	0	0	0	0	
_	224 OR	398	GR	399		0		0	0	0	0	0	0	ARMOR SIDES
9	225	401		-402		C		0	0	0	0	0	0	TOW ARMOR
	226	0		0		C		0	0	0	0	0	0	DUMMY HOOD
	227	404		-226		-227		-225	-222	-224	0	0	0	WINDSHIELD
	228 OF	405	OR	406		0		0	0	O	O	0	0	LEFT ARMOR
	229 OF	407	CR	408		0		0	0	0	O	0	C	RIGHT ARMOR
	230	409		0		O		0	0	0	0	0	0	ROUF ARMOR

TABLE 0-3. FEGIGNS ICENTIFICATION FOR OPTION 3 XR311

1	KEGION	ITEM	SPACE		MATERIAL	ros
	NUM	CODE	CUDE	DESCRIPTION	CODE	PERCENT
	1	9701	C	GIL SUMP	1	2
	2	9702	Ü	ENGINE BLOCK	4	55
	3	9703	O	INTAKE MANIFULD	4	20
	4	9704	U <sub>i</sub>	CARBURATOR	5	50
	5	9705	0	OIL FILTER	1	2
	6	970h	0	WATER PUMP	4	30
	7	9707	ō	AIP FILTER	1	2
	8	9708	С	FUEL PUMP	5	30
	9	9709	G	FUEL FILTER	5	5
	10	9710	0	ENGINE RADIATOR	7	15
	11	9711	C	TRAN HOUSEING (HOLLOW)	4	90
199	12	9712	U	AUTUMATIC TRANSMISSION	5	40
9	13	9713	0	FRONT DIFFERENTIAL	1	50
	14	9714	O	FNT PROPELLER SHAFT U-JOINT	1	55
	15	9715	0	FNT TRANSMISSION U-JOINT	1	55
	16	9716	O	FNT PROPELLER SHAFT (HULLOW)	1	15
	17	9717	J	LEFT FNT DIFFERENTIAL U-JOINT	1	55
	18	971E	0	RICHT FNT DIFFERENTIAL U-JOINT	1	55
	19	9719	C	LEFT ROCKER ARM COVER	1	2
	20	9720	Ú	RIGHT ROCKER ARM COVER	1	2
	21	9721	0	DISTRIBUTOR	5	30
	22	9722	C	IGNITION COIL	1	5
	23	9723	0	LEFT FRONT AXLE	1	100
	24	9724	Û	LEFT FNT WHEEL U-JOINT	1	55
	25	9725	O	RIGHT FRONT AXLE	1	100
	26	9726	0	RIGHT FNT WHEEL U-JCINT	1	55
	27	9727	0	REAR DIFFERENTIAL	1	50
	28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
	29	9729	O	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
	30	8 <b>73</b> 7	0	TIRE	18	25
	31	9737	O	WHEEL	1	50

TABLE 0-3. RECIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

ç	REGION	ITEM	SPACE			MATERIAL	LOS
	NUM	3000	CUDE	DESCRIPT	IGN	CODE	PERCENT
	32	6737	O	TIKÉ		18	25
	33	9737	0	WHEEL		1	50
	34	8737	0	TIPE		18	25
	35	9737	O	MHEEL		1	50
	36	€ <b>73</b> 7	0	TIPE		18	25
	37	9737	Č	whitt		1	50
	38	8704	U	AIR CLEANER HOSE		18	5
	39	9112	0	CHASSIS BUDY FLOOR		1	49
	4 U	9113	Ü	ENGINE COMPARTMENT BU	JLKHEAD	1	100
	41	9114	0	TRANSMISSION COVER		1	49
	42	9114	U	THANSMISSION COVER		1	49
	43	9114	С	TEANSMISSION COVER TO	)P	1	49
	44	9730	9	TKANSMISSIUN REAR U	JOINT	1	55
<b>)</b>	45	9731	0	REAR DIFFERENTIAL U-	JOINT	i	55
20	46	9736	U	REAR PROP		1	15
	47	9732	Ü	TRICL-U J33HW RA3R		1	55
	4.8	9733	C	TRICL-U JOHN RABE		1	55
	49	9734	0	REAR AXLE		1	100
	50	9735	J	REAR AXLE		1	100
	51	9651	Ö	PADIATOR WATER HUSE		18	5
	52	9402	O	DISC BRAKE ROTUR		1	100
	53	9403	õ	DISC BRAKE RETOR		1	100
	54	9404	0	DISC BRAKE ROTOR		1	100
	55	9405	0	UISC BRAKE ROTOR		1	100
	56	9756	0	DRIVE TRAIN TUNNEL		1	49
	57	9752	C	SEAT		18	100
	58	9752	J	SEAT		18	100
	59	9752	O	SEAT		18	100
	60	9752	Û	1432		18	100
	61	9810	O	LOWER LEG LEFT	DRIVER	28	100
	62	9811	0	LCWER LEU RIGHT	DKIVER	26	100

TABLE D-3. REGIONS IDENTIFICATION FOR LPTION 3 XR311 (CONTINUED)

í	REGION	ITEM	SPACE			MATERIAL	LOS
	NUM	CANE	CODE	DESCRIPTIO	N	CODE	PERCENT
	63	9812	C	UPPER LEG LEFT	DRIVER	28	100
	64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
	65	9814	Ö	HIP JOINT LEFT	BRIVER	28	100
	66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
	67	9816	0	HIPS	DRIVER	28	100
	68	9817	С	TURSO LOWER	DRIVER	28	100
	69	9818	O	TERSE CHEST	DRIVER	28	100
	70	9819	0	UPPER ARM LEFT	DRIVER	28	100
	71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
	72	9821	0	LUWER ARM LEFT	DRIVER	28	100
<i>C</i> 3	73	9822	0	LOWER ARM RIGHT	DRIVER	28	160
201	74	9823	Ö	NECK	DRIVER	28	100
	75	9824	O	HEAD	DRIVER	28	100
	76	9825	Ō	KNEE LEFT	DRIVER	28	100
	77	9826	0	KNEE RIGHT	DRIVER	26	100
	78	9827	0	ELBOW LEFT	DRIVER	28	100
	79	9828	O	ELBOW RIGHT	DRIVER	28	160
	80	9829	С	ANKLE LEFT	DRIVER	28	100
	81	9830	0	ANKLE RIGHT	DRIVER	28	100
	82	9831	Ú	HAND LEFT	DRIVER	28	100
	83	9832	G	HAND RIGHT	DRIVER	28	100
	84	9833	C	SHOULDER JOINT LEFT	DRIVER	28	100
	85	9834	0	SHOULUER JOINT KIGHT	DRIVER	28	100
	86	9760	O	FUEL CELL		13	5
	87	8910	С	LUWER LEG LEFT	LOADER	28	100
	88	8911	0	LOWER LEG RIGHT	LOADER	28	100
	8 <b>9</b>	8912	0	UPPER LEG LEFT	LOADER	28	100
	90	8913	0	UPPER LEG RIGHT	LGADER	28	100
	91	8914	0	HIP JOINT LEFT	LOADER	28	100
	92	8915	O	HIP JOINT RIGHT	LOADER	28	100
	93	891€	0	HIPS	LOADER	28	100

REGION	ITEM	SPACE			MATERIAL	LOS
NUM	CODE	COLE	DESCRIPTI	2 N	COVE	PERCENT
94	8917	o	TCRSU LOWER	LOADER	28	100
95	891¢	Э	TOPSE CHEST	LGADEP	28	100
96	e <b>91</b> 9	0	UPPER ARM LEFT	LOADER	28	100
97	8920	O	UPPER ARM RIGHT	LOADER	28	100
98	0921	G	LOWER ARM LEFT	LCADER	28	100
99	8922	Э	LOWER ARM RIGHT	LOADER	28	100
100	8923	С	NE C.K	LUADER	28	166
101	8924	0	HEAD	LGADER	28	100
102	8925	0	KNEE LEFT	LOADER	28	100
103	8926	С	KNEE RIGHT	LUADER	28	100
104	8927	C	ELBOK LEFT	LOADER	28	100
105	8928	C	ELBOW RIGHT	LCADER	28	160
106	8929	J	ANKLE LEFT	LOADER	28	100
107	493C	C	ANKLE RIGHT	LOADER	28	100
108	ø931	0	HAND LEFT	LUADER	28	100
109	8932	O	HAND RIGHT	LOADER	28	100
110	8933	O	SHOULDER JOINT LEFT	LOADER	28	100
111	О	0	₽₽WW.Y		0	0
112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
113	9101	0	XR 311 FRONT SHEET MET	AL TOP	1	49
114	9102	O	FRONT BUMBER		1	100
115	9103	0	SHEET METAL LEFT SIDE		1	49
116	9104	O	SHEET METAL PIGHT SID	E	1	49
117	9105	Э	LEFT - ROCKER PANEL		1	49
118	9105	Ö	RIGHT ROCKER PANEL		1	49
119	9102	0	REAR BUMBER		1	100
120	9106	0	REAR SHEET METAL		1	49
121	9109	Ċ	FLOOF SKID		1	100
122	9107	С	FURWARD BULKHEAD		1	100
123	9108	O	ENGINE DECK SHEET META	L	1	49
124	9149	C	RGLL BAR CGRNER		1	17

TABLE U-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION	ITEM	SPACE			MATERIAL	LOS
MUM	CODE	CEDF	DESCRIPTION		CODE	PERCENT
125	915C	c	ROLL BAR CURNER		1	17
126	9151	0	RELL BAR SIDE		1	17
127	9152	0	RELL BAR SIDE		1	17
128	9153	0	ROLL BAR CENTRE AND TOP		1	17
129	9154	0	KEAR PULL BAR CORNER		1	17
130	9155	O	REAK ROLL BAK CORNER		1	17
131	9156	0	FRONT HOOD		1	49
132	9157	C	REAR ROLL BAR SIDE		1	17
133	9158	C	REAR ROLL BAR SIDE		1	17
134	9761	O	HEADLIGHT		1	2
135	9761	o	HEADLIGHT		1	2
136	9762	O	STEERING COLUMN		1	15
137	8762	C	STEERING WHEEL		18	100
138	9115	0	FRONT TOP ENGINE DECK		1	49
139	9763	C	BATTERY		8	38
140	9763	0	BATTERY		8	38
141	9641	V	PEDESTAL MOUNT		1	55
142	9642	0	PADIU ORC 160		1	24
143	9643	C	TOW GUIDANCE SET		5	21
144	9405	0	TOW TRAVERSE MOUNT		5	60
145	7300	O	MISSILE SKIN	FIRE	5	100
146	7301	O	LAUNCH MUTOR		2	32
147	7302	O	FLIGHT MUTOR SECTION		2	23
148	7303	O	WARHEAD NOSE		5	100
149	7304	0	WARHEAD SECTION		5	55
150	7305	0	MISCELLANEBUS COMPONENTS		5	23
151	7306	o	MISSILE CASE		16	99
152	9500	0	DAY SIGHT		5	40
153	9510	0	TOW LAUNCHER TUBE		5	99
154	9511	0	TOW LAUNCHER TUBE		5	99
155	9512	0	TOW LAUNCHER TUBE		5	99

TABLE 0-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

	REGION	ITEM	SPACE		MATERIAL	<b>L</b> 0 S
	NUM	CODE	CUDE	DESCRIPTION	CODE	PERCENT
	156	9801	0	CREW BUDY ARMOR	12	99
	157	9801	C	CREW BODY ARMOR	12	99
	158	9802	G	NICHT SIGHT (STOWED)	5	80
	159	9300	C	MISSILE SKIN	5	100
	160	9301	o	LAUNCH MOTOR	2	32
	161	9302	3	FLIGHT MOTOR SECTION	2	23
	162	9303	C	WARHEAD NOSE	5	100
	163	9304	O	WARHEAD SECTION	5	<b>5</b> 5
	164	9305	0	MISCELLANEOUS COMPONENTS	5	23
	165	9 <b>30</b> 6	O	WIZZIFF CAZF	16	99
	166	9300	O	MISSILE SKIN	5	100
	167	9301	U	LAUNCH MOTOR	2	32
	168	9302	0	FLIGHT MUTOK SECTION	2	23
2	169	9303	ð	WARHEAD NOSE	5	100
_	170	9304	e	WARHEAD SECTION	5	55
	171	9305	0	MISCELLANEOUS COMPONENTS	5	23
	172	9306	G	MISSILE CASE	16	99
	173	9300	v	WISSILE SKIN	<b>5</b>	100
	174	9301	C	LAUNCH MOTOR	2	32
	175	9302	IJ	FLIGHT MOTOR SECTION	2	23
	176	9303	C	WARHEAD NOSE	5	100
	177	9304	Ü	WASHEAD SECTION	5	55
	176	9305	0	MISCELLANEGUS COMPONENTS	5	23
	179	9306	C	M1S51LE CASE	16	99
	180	9300	J	WISSILE SKIN	5	100
	181	9301	0	LAUNCH MOTOR	2	32
	182	9302	О	FLIGHT MCTOR SECTION	2	23
	183	9303	Ü	WARHEAD NOSE	5	100
	184	9304	O	WARHEAD SECTION	5	55
	185	9305	0	MISCELLANEOUS COMPONENTS	5	23
	186	9306	0	MISSILE CASE	16	99

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

R	EGION	LTEM	SPACE			MATERIAL	LOS
	NUM	CODE	SCOE	DESCRIPTIO	3 N	CODE	PERCENT
	187	8813	C	LOWER LEG LEFT	GUNNER	2 ś	100
	188	1183	C	LOWER LEG RIGHT	GUNNER	2 â	100
	189	8612	Ĉ	UPPER LEG LEFT	GUNNEK	2.8	100
	190	8813	C	UPPER LEG RIGHT	GUNNER	28	100
	191	8814	C	HIP JOINT LEFT	GUNNER	2 8	100
	192	8815	C	HIP JOINT RIGHT	GUNNER	28	100
	193	8816	O	HIPS	GUNNER	26	100
	194	8817	O	TORSO LOWER	GUNNER	28	100
	195	8818	С	TERSE CHEST	GUNNER	28	100
	196	5819	Ü	UPPER ARM LEFT	GUNNER	28	100
	197	b 520	O	UPPER ARM RIGHT	GUNNER	28	100
<i>C</i> 1	198	8821	0	LOWER ARM LEFT	GUNNER	2 8	100
205	199	8822	O	LEWER ARM RIGHT	GUNNER	28	100
	200	8823	v	NECK	GUNNER	28	100
	201	8824	õ	HEAÙ	GUNNER	28	100
	202	9825	C	KNEE LEFT	GUNNER	28	100
	203	8826	C	KNEE RIGHT	GUNNER	28	100
	204	8827	G	ELBOW LEFT	GUNNER	28	100
	205	8828	O	ELBUW RIGHT	GUNNER	28	100
	206	b829	С	ANKLE LEFT	GUNNÉR	28	100
	20 <b>7</b>	8830	Ü	ANKLE RIGHT	GUNNER	28	100
	208	88 <b>31</b>	G	HAND LEFT	GUNNER	28	100
	209	8832	ن	HAND RIGHT	GUNNER	28	100
	210	8833	0	SHOULDER JOINT LEFT	GUNNER	28	100
	211	8834	С	SHOULDER JOINT RIGHT	GUNNER	28	100
	212	9736	U	STARTER MOTOR		1	45
	213	9739	C	STAPTER CABLE		7	99
	214	9740	Ü	GAS LINES		1	20
	215	8300	ن	MISSILE SKIN	(READY)	5	100
	216	6301	C	LAUNCH MOTOR	(READY)	2	32
	217	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE 2-3. FEGIONS IDENTIFICATION FOR OPTION 3 XK311 (CONTINUED)

f	PEGIBN NUM	TTEM CODE	SPACE CONE	EESCKIPTICN		MATERIAL CODE	LOS PERCENT
	218	8303	C	WARHEAD NOSE	REAUYI	5	100
	214	£304	Ú	WARHEAD SECTION (	LREADY)	5	55
	220	8305	C	MISCELLANELUS CLMPONENTS (	READYI	5	23
	221	830+	0	MISSILE CASE		16	99
	222	6307	C	16w TRIPOD		5	60
	223	9801	Ű	ECCY ARMOR		12	99
	224	8224	(	ARMUR FOR GUNNER SIDE		12	79
	225	6225	C	TOW ARMOR BOX		12	79
	226	8226	0	DUMMY HOCC		12	79
	227	8227	G	WINDSHIELD		12	79
	228	8228	()	LEFT SIDE ARMOR		12	79
206	229	8229	0	RIGHT SIDE ARMUR		12	79
٠,	230	6230	0	ARMUR RUCE		12	79

# APPENDIX E COMBINATORIAL GEOMETRY BACKGROUND

#### APPENDIX E

#### COMBINATORIAL GEOMETRY BACKGROUND

The GIFT computer code requires a Combinatorial Geometry (COM-GEOM) target description as input data. Familiarization with the COM-GEOM technique and terminology is required to understand the description of the XR311-TOW system. The following is a brief introduction to the COM-GEOM technique of target description. Reference 1 gives a more detailed account of the COM-GEOM method as required for input to the GIFT code.

Engineering drawings, manuals, photographs or other descriptive material are required to produce a COM-GEOM description. The COM-GEOM technique utilized twelve basic geometric solids combined under three set-theory type operations to define the shape and location of each component of a target. A complete COM-GEOM description contains the three distinct parts: a solid table, a region table and a region identification table.

A solid is defined as one of the twelve geometric shapes available for COM-GEOM descriptions (See Table E-1). The parameters of a solid give its location, size, and orientation within the coordinate system established for the target. Each solid is uniquely numbered and its parameters listed in the solid table.

A region is the space occupied by a single solid or combination of solids. Solids are combined using the three operations: intersection (+), union (OR) and difference (-). The intersection (+) of two solids is defined as the space in common with both solids. The union (OR) of two solids is defined as the space in both of the solids. The difference (-) of two solids is defined as the space in the first solid minus the space of the second solid. Figure E-1 is a graphic illustration of these three operations. Any number of solids from the solid table may be used to define a region. Each region is uniquely numbered and its defining combination of solids is listed in the region table.

In the region identification table, each region is assigned an identification code number. These code numbers either identify each specific region as a component of the target or as an air space. Table A-2 lists the groups of code numbers used in this description and the

class of components which they represent. Space not described as a region is assigned the air space code "01" by the GIFT code. It is not necessary to describe the inside air of a target, in which case both inside and outside air will be identified by the 01 space code. However, in many

targets, it is important to distinguish between inside and outside air. For these targets, all interior space is described as a region and identified as inside air, leaving the Ol space code for outside air only. The RAYAIR subroutine of the GIFT code allows any region identified with a space code to overlap any region identified with an item code or

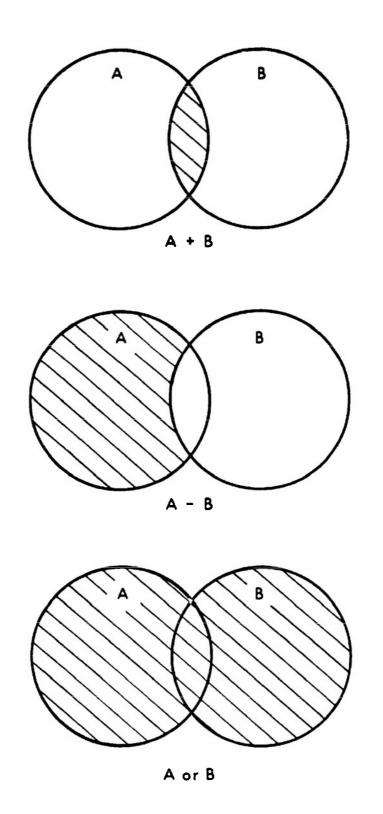


Figure E-1. INTERSECTION (+), SUBTRACTION (-), UNION (OR) OF SOLIDS

the same space code. However, regions with different code numbers cannot overlap.

Table E-1. Geometric Solids Used in COM-GEOM Descriptions

SYMBOL	SOLID NAME
RPP	Rectangular Parallelepiped
BOX	Box
RAW	Right Angle Wedge
ARB	Arbitrary Convex Polyhedron
ARS	Triangular Surfaced Polyhedron
ELL	Ellipsoid of Revolution
SPH	Sphere
RCC	Right Circular Cylinder
REC	Right Elliptical Cylinder
TRC	Truncated Right Angle Cone
TEC	Truncated Elliptic Cone
TOR	Torus

The region identification table also allows 40 alphanumeric characters of descriptive data per region. The analyst needs to know the the type and percentage of material making up each region. The percentage value is used to produce an equivalent line-of-sight thickness of the material type. This information is included in the 40 characters of descriptive data in the region identification table. In the XR311-TOW description, the last three preceding characters are a code indicating the material type.

The three tables described above comprise a complete COM-GEOM target description as required for input to the GIFT computer code.

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